
**QUARTERLY MONITORING REPORT
ACTIVE TREATMENT SYSTEMS
THIRD QUARTER 2004**

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**AMERICAN CHEMICAL SERVICE NPL SITE
GRIFFITH, INDIANA**

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Prepared For:

**American Chemical Service NPL Site RD/RA Executive Committee
Griffith, Indiana**

Prepared By:

**MWH Americas, Inc.
175 West Jackson Boulevard, Suite 1900
Chicago, Illinois 60604**

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GRIFFITH, INDIANA**

Prepared For:

**American Chemical Service NPL Site RD/RA Executive Committee
Griffith, Indiana**

Prepared by: Amy Clore
for Jonathan Pohl, P.E.
Project Engineer

2/25/05
Date

Approved by: 
for Peter Vagt, Ph.D., CPG
Project Manager

FEBRUARY 25, 2005
Date

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ACRONYMS AND ABBREVIATIONS

AS	Air Sparge
AMSL	Above Mean Sea Level
BOD	Biological Oxygen Demand
BW	Barrier Wall
BWES	Barrier Wall Extraction System
cfm	cubic feet per minute
DPE	Dual Phase Extraction
EF1	effluent sample
GAC	Granular Activated Carbon
Global	Global Engineering, Inc.
GWTP	Groundwater Treatment Plant
IDEM	Indiana Department of Environmental Management
IN1	influent sample
IN2	duplicate influent sample
K-P	Kapica Pazmey
lb/hr	Pounds per hour
LDC	Laboratory Data Consultants
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NC	Not Calculated
ND	Not Detected
NE	No Effluent Limit Established
NS	Not Sampled
OFCA	Off-Site Containment Area
PCBs	Polychlorinated Biphenyls
ppm	Parts per million
PGCS	Perimeter Groundwater Containment System
PSVP	Performance Standard Verification Plan
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
SBPA	Still Bottoms Pond Area
SVOC	Semi-Volatile Organic Compounds
T-102	Aeration Equalization Tank
TOC	Top of Casing
TOIC	Top of Inner Casing
TOSG	Top of Staff Gauge
TSS	Total Suspended Solids
µg	Micrograms
µg/L	Micrograms per liter
U.S. EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds
"Hg	Inches of mercury
"H ₂ O	Inches of water

1.0 INTRODUCTION

MWH, on behalf of the ACS RD/RA Executive Committee, started up the on-site groundwater treatment system at the American Chemical Service NPL Site (ACS Site) in Griffith, Indiana on March 13, 1997. The groundwater treatment plant (GWTP) system was designed to treat groundwater from the Perimeter Groundwater Containment System (PGCS) and the Barrier Wall Extraction System (BWES). The original treatment consisted of a phase-separator for oil and free product removal, equalization tanks, a UV oxidation unit for destruction of organic constituents, and an air stripper to remove methylene chloride and other organics. The treatment also included a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater before it was released to the wetlands west of the site.

In 2001, the GWTP was upgraded and an activated sludge treatment unit was added to the process to reduce the volatile and semivolatile organic compounds (VOCs and SVOCs) in the collected groundwater. The activated sludge treatment process also reduces the amount of activated carbon required to treat the water. An aerated equalization tank was also added to the GWTP in 2001 to remove VOCs from the collected groundwater, oxidize metals to increase metals removal efficiency in the chemical precipitation unit, and equalize groundwater flow through the GWTP. The activated sludge system and aeration tank have been fully integrated into the process along with the other upgrade components. Startup and optimization of the catalytic oxidizer/scrubber air treatment unit was also conducted during 2001.

The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system, in accordance with Agency approvals.

In the fall of 2001, MWH began construction of an In-Situ Vapor Extraction (ISVE) system for the Off-Site Containment Area (OFCA) and the Kapica-Pazmey (K-P) Area, both within the area known as the Off-Site Area. The Off-Site Area ISVE system consists of 42 ISVE wells, a blower system, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. The construction of the system was completed in March 2002 and the system was started on May 1, 2002 after the startup of the thermal oxidizer and scrubber system was completed. Protocols and goals for the phased startup of the Off-Site System as defined in the Final Remedy (Montgomery Watson, 1999) were followed. In 2004, an additional blower system was added to the Off-Site Area ISVE system.

In the beginning of 2003, MWH began construction of an ISVE system for the Still Bottoms Pond Area (SBPA). The SBPA ISVE system consists of 25 ISVE wells, 21 dual phase extraction (DPE) wells, six air sparge wells, ISVE and air sparge blower systems, and the associated mechanical and electrical components. The construction of the system was completed and the system was started in July of 2003. A new thermal oxidizer/scrubber unit was installed in the GWTP in the spring of 2003. The new unit was installed to treat vapors from both ISVE systems.

This Active Treatment Systems report summarizes GWTP effluent analytical data, catalytic oxidizer/scrubber (annually) and thermal oxidizer off-gas analytical data, ISVE process monitoring data, and water level gauging data collected from July 2004 through September 2004. The report also details modifications and upgrades that were made to the active treatment systems during the reporting period.

2.0 GWTP COMPLIANCE MONITORING

2.1 INTRODUCTION

Effluent samples from the treatment system are collected on a regular schedule to demonstrate compliance with the discharge limits (Table 2.1) established by Indiana Department of Environmental Management (IDEM) and United States Environmental Protection Agency (U.S. EPA). The approved Performance Standard Verification Plan (PSVP) (Montgomery Watson, July 1997) requires quarterly effluent sampling for biological oxygen demand (BOD), total suspended solids (TSS), SVOCs, metals, and polychlorinated biphenyls (PCBs) in the system, and monthly effluent sampling for pH and VOCs, as tabulated below.

Sampling and analyses were performed in accordance with the approved Quality Assurance Project Plan (QAPP) (Montgomery Watson Harza, November 2001). Quality control measures were also instituted in accordance with the PSVP. The following table and paragraphs present details on sampling and analyses and also summarize the analytical data for the treatment system effluent.

Sampling Frequency Schedule – Groundwater Treatment System

Analytes	Cumulative Time From Startup*	Frequency
Flowrate	–	Continuous
BOD, TSS, SVOCs and Metals	181 days onward	Once per quarter
VOCs and pH	31 days onward	Once per month
PCBs	181 days onward	Once per quarter
PCBs in Sediment (one location)	–	Once per year

*Note: System was started up on March 13, 1997

2.2 EFFLUENT SAMPLING AND ANALYSES

Effluent samples were collected each month during the third quarter of 2004. Samples were collected on the following dates and analyzed for the listed analytes for this reporting period:

July 8, 2004	full analysis (pH, TSS, BOD, Metals, VOCs, SVOCs, pentachlorophenol, and PCBs)
August 12, 2004	pH and VOCs
September 7, 2004	pH and VOCs

The samples detailed above were collected directly from a sampling tap on the effluent line of the GWTP. The samples were placed in contaminant-free containers, in accordance with the U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample

Containers (U.S. EPA, 1992). Appropriate sample containers and preservatives, as specified in the QAPP, were used to collect and preserve the samples. Following sample collection, the temperature of the sample containers was maintained at or below 4° C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories. In accordance with the approved QAPP, the effluent water samples were analyzed for the following parameters by the following analytical methods:

<u>Parameter</u>	<u>Analytical Method</u>
VOCs	SW-846 8260B
SVOCs	SW-846 8270C
Pentachlorophenol	SW-846 8270C and SIM
Pesticides/PCBs	EPA 608/SW-846 8081/8082
Metals (Excluding Mercury)	SW-846 6010
General Water Quality	
Parameters (TSS and BOD-5)	EPA 160.2 and 405.1
Mercury	SW-846 7470
pH	EPA 150.1

2.3 EFFLUENT ANALYTICAL RESULTS

2.3.1 GWTP Effluent Samples

The GWTP effluent monitoring data, summarized in Table 2.2, verify that the system effluent was compliant with the discharge limits summarized in Table 2.1. No permit exceedences were reported in the July, August, or September samples.

Compuchem Laboratory of Cary, North Carolina performed the analysis of the samples. Laboratory Data Consultants (LDC) of Carlsbad, California performed third party data validation in accordance with the U.S. EPA National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Table 2.2 and are written in the margin of the analytical data sheets provided in Appendix A.

2.3.2 Sediment Sample

Since 1998, MWH has collected an annual sediment sample and associated quality control samples from the GWTP outfall in accordance with the PSVP to help determine if PCB accumulation is occurring at the GWTP discharge location. The annual sediment sample for 2004 was collected on September 27th from the GWTP outfall location, shown on Figure 2.1. The sample was analyzed for PCBs by Compuchem and the data was validated by LDC.

A summary of the analytical data for the annual sediment samples for the past six years are summarized in Table 2.3. Analytical data for the September 2004 sample are included in Appendix B. There were no detections of any of the seven target aroclors in September 2004. This indicates that PCBs are not accumulating at the GWTP outfalls.

2.4 CATALYTIC OXIDIZER/SCRUBBER SAMPLING AND ANALYSIS

MWH began eight initial rounds of off-gas sampling of the catalytic oxidizer/scrubber as detailed in the PSVP (Montgomery Watson, April 1997) during April 2002. The eight rounds of sampling were completed during the third quarter of 2002. One sample was collected in October 2002 to verify the continued performance of the system. The off-gas was also sampled in December 2002 after repairs were made to the catalytic oxidizer/scrubber unit to ensure the unit was continuing to work properly. As discussed in the *Progress Report - November 2002 Activities* dated December 9, 2002, the off-gas sample from the catalytic oxidizer/scrubber will be sampled annually, in accordance with IDEM regulations and the PSVP. However, since the vapors generated by the GWTP are being treated by Therm Ox 2 and the catalytic oxidizer is not being operated continuously, annual samples of the catalytic oxidizer are only be collected if the unit operates within that year.

During the third quarter of 2004 the catalytic oxidizer system was operated to treat vapors from aeration tank, T-102, due to maintenance work being performed on both ISVE systems. An off-gas sample was collected from the unit on September 16th and analyzed for VOCs by method TO-14 and SVOCs by method TO-13. The results of this sample are summarized in Tables 2.4 and 2.5 and the analytical data sheets are included in Appendix C. The VOC sample results indicate that the effluent VOC mass is approximately 0.11 pounds per hour (lb/hr). This is below the maximum permitted discharge limit of 3 lb/hr.

2-3 lb/day

3.0 ISVE SYSTEM MONITORING

3.1 THERMAL OXIDIZER OFF-GAS SAMPLING

The thermal oxidizer/scrubber unit manufactured by Durr Engineering (designated as Therm Ox 1) did not operate during the third quarter 2004 because the unit's heat exchanger was being replaced. The new heat exchanger for the unit was delivered to the Site on September 9, 2004. The mechanical and electrical work for connecting the new heat exchanger was completed at the end of September and the test out of the heat exchanger is planned for October. Therm Ox 1 was not operating during this reporting period; therefore, no samples were collected from this unit.

The second thermal oxidizer/scrubber (therm ox) was manufactured by Global Engineering (Global) and is designated as Therm Ox 2. Therm Ox 2 was installed at the GWTP to treat the vapor collected by the SBPA and Off-Site Area ISVE system. Beginning in the third quarter of 2003, vapors from the SBPA ISVE system were treated by the new unit. Monthly compliance sampling of Therm Ox 2 began in July 2003 when the system was fully operational. In September 2003, the vapors from both the Off-Site Area ISVE and the SBPA ISVE systems were treated by Therm Ox 2. During the third quarter of 2004, compliance samples from Therm Ox 2 were collected on July 27th, August 12th, and September 27th.

Influent and effluent off-gas samples were collected directly from sampling taps on the influent pipe to the thermal oxidizer and the discharge stack of the scrubber. One influent sample (labeled IN1) and one effluent sample (EF1) were collected. A duplicate influent sample (IN2) was also collected. The samples were collected in accordance with laboratory guidelines to comply with the PSVP and QAPP. The VOC samples were collected using a summa canister and the SVOC samples were collected in sorbent tubes.

Sampling Frequency Schedule – ISVE System

Startup	Weekly for a four week start-up period
Post-Startup	Monthly in accordance with the IDEM Air Permit Equivalency

Following sample collection, the SVOC sample containers were maintained at or below 4°C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed by the following analytical methods:

Parameter	Analytical Method
VOCs	TO-14
SVOCs	TO-13

3.2 SAMPLING RESULTS

The influent and effluent off-gas data from Thermal Oxidizer 2 are summarized in Tables 3.1 and 3.2 and verify that the off-gas from the thermal oxidizer was less than the IDEM discharge limit of three pounds of VOCs per hour for July, August, and September. For example, the VOC discharge reported from the August 12, 2004 sample was 0.79 pounds per hour, approximately twenty six percent of the discharge limit. The results for July and September were within the same general range. The analytical data sheets for the compliance samples are provided in Appendix D.

Air Toxics Laboratories of Folsom, California analyzed the samples. The analytical results are summarized in Tables 3.1 and 3.2. MWH performed data validation in accordance with the QAPP and the National Functional Guidelines for Organic/Inorganic Data Review. Validation qualifiers are listed in Tables 3.1 and 3.2 and are written in the margin of the analytical data sheets provided in Appendix D.

3.3 ISVE SYSTEM MONITORING

Performance monitoring of the ISVE system was conducted in accordance with the PSVP (Montgomery Watson, June 1999). Extracted vapor flow rates and vacuums at individual ISVE wells and headers were measured and recorded on a routine basis. Additionally, VOC concentrations were measured at individual wells and headers using a photoionization detector (PID).

MWH collected off-gas samples from the Off-Site ISVE system and the SBPA ISVE system influent lines. This data was collected in order to monitor the performance and total VOC removal from both ISVE systems and are not needed to conform with compliance requirements. The data from this monitoring is summarized in Tables 3.3 and 3.4.

The information collected during performance monitoring is used to evaluate and optimize the ISVE systems. Data collected from the Off-Site ISVE system during the third quarter of 2004 is presented in Tables 3.5 and 3.6. Data that was collected from the SBPA ISVE system during the third quarter of 2004 is presented in Tables 3.7 and 3.8.

4.0 GWTP TREATMENT SYSTEM PROCESS MODIFICATIONS

On September 1st and 2nd, U.S. Floors applied an epoxy floor coating to the sulfuric acid storage area that was damaged in June when the old sulfuric storage tank leaked. A new 900-gallon sulfuric acid tank was delivered to the Site and placed in the acid storage area on September 3rd. Acid was transferred from the temporary storage tanks to the new tank on September 14th. The remaining acid that could not be transferred to the new tank was shipped as a usable product to General Environmental Management's acid use facility in St. Louis, Missouri.

Extraction wells MW56 and MW10C were offline in September due to malfunction of the pump controllers.

The granular activated carbon (GAC) vessels were changed out on September 27th.

5.0 ISVE PROCESS MODIFICATIONS

During the week of July 5, 2004 an epoxy coating was applied to the interior walls of the Therm Ox 1 scrubber unit. On September 9, 2004, a new heat exchanger for Therm Ox 1 was delivered to the Site. The mechanical and electrical connections for the new heat exchanger were completed at the end of September. The start up of the unit is planned for October.

Installation of the expansion equipment for the Off-Site Area ISVE system began in July and was completed at the end of September. Startup of the expanded ISVE system will occur in October.

On August 19th, MWH began the removal and replacement of one ISVE well and one air sparge well in the SBPA area as a part of the system evaluation. Prior to overdrilling, the ISVE wells in the work areas were enabled to remove vapors. The SBPA ISVE system was then shut down just before drilling commenced. The work was completed on August 20th. The results of the tests were summarized in a technical memorandum on the ACS SBPA ISVE System Evaluation that was submitted to the Agencies on September 30th (MWH, September 2004).

6.0 PGCS AND BWES GAUGING ACTIVITIES

The PGCS groundwater extraction trenches were operated in "auto" mode during the third quarter of 2004. In "auto" mode, the PGCS extraction wells pump continuously unless there is a low water level in individual extraction wells, a high water level in Aeration Equalization Tank (T-102), or the GWTP is shutdown. This mode is used to control the flowrate through the treatment system while at the same time creating an inward gradient along the PGCS trench. The GWTP also received influent from the On-Site and Off-Site components of the BWES and the SBPA DPE wells during the third quarter of 2004. MW10C and MW56 operated for a majority of the third quarter of 2004; but were taken off-line in September due to inoperable pump controllers.

In accordance with the PSVP for the Site, a discussion on the effect of the PGCS and BWES on the water table near the Site is presented in each quarterly monitoring report. This section summarizes the groundwater elevations at the site during July, August, and September 2004. Groundwater elevation measurements were collected throughout the Site on September 20, 2004 as part of the groundwater monitoring program. The groundwater elevations and resulting contours outside the barrier wall are listed in Table 6.1 and shown on Figure 6.1.

The barrier wall was constructed to contain a contaminated zone under the Site, and the BWES was installed to extract groundwater from within the barrier wall and dewater the Site for the ISVE system. Eight pairs of piezometers were installed, with one piezometer of each pair on either side of the barrier wall, spaced along the barrier wall alignment. This allows measurement and tracking of water levels in order to document that the barrier wall is serving its designed function.

Table 6.1, BWES Water Level and Piezometer Pairs, presents the groundwater elevations inside and outside the barrier wall on September 20, 2004. They are illustrated on Figure 6.2. The groundwater elevation measurements were 1.29 to 5.69 feet higher outside the barrier wall. However, at one piezometer pair in the Off-Site Area (P95/P96), the groundwater elevation was 0.1 foot higher inside the barrier wall. Further investigation indicated that the extraction trench located near the piezometer pair (EW-11) was not working at the time when the water levels were collected. MWH plans to repair the inoperable well pump in the first part of the fourth quarter 2004. In general, the data demonstrates that the barrier wall is successfully performing the intended function of isolating and protecting the groundwater outside the barrier wall from the source areas of the Site inside the barrier wall. MWH will continue to collect regular water level measurements across the Site as required in the PSVP.

As part of the optimization of the GWTP and BWES upgrades, MWH began active dewatering of the Off-Site Area through increased groundwater pumping rates on September 25, 2001. Active dewatering of the SBPA began on February 11, 2003 with the addition of the DPE wells. To keep track of the dewatering progress inside the barrier wall, water levels were collected from the various piezometers and air sparge (AS) wells on a regular basis, as shown in Table 6.2. Water levels were regularly measured throughout the quarter at seven piezometers in the On-Site Area (P29, P31, P32, P36, P49, P-106, and

P-108) and at seven piezometers and three air sparge wells in the Off-Site Area (P96, P110, P112, P113, P114, P116, P118, AS-7, AS-8, and AS-9). The water level data from these piezometers and AS wells are depicted graphically on Figures 6.3 and 6.4, which also reference the target water elevations for each area. The water levels in both areas are on average with previous quarters. In the SBPA, the target water level is 629 feet amsl. Piezometer P-36, which is located in the middle of the ISVE area had an average water level during the third quarter of 625.2, which is 3.8 feet below the target level. The water levels measured at the piezometers outside of the ISVE area are within one foot of the target water level. This information indicates that the water levels within the area of the SBPA ISVE system are sufficient for effective ISVE operation.

The water levels in the Off-Site Area vary from 1.2 feet below the target level to 2.6 feet above the target level. The current water level elevations should not significantly affect the vapor extraction capacity of the ISVE system because sufficient screen length in the ISVE wells is still available and can target the VOC mass above the water table. However, if water levels continue to rise, blinded ISVE well screens may become an issue. MWH will continue to monitor the water levels to ensure vapor extraction at the ISVE wells is not inhibited. Repair of the Off-Site Area BWES pumps, anticipated to occur in the 4th Quarter, should improve pumping rates and decrease the water levels.

7.0 SYSTEM OPERATION

The GWTP operated as designed for approximately 90 percent of the third quarter of 2004 (based on days of operation). The system drew influent from the On-Site Area BWES, the Off-Site Area BWES, the PGCS, MW-10C, and 56. The system was shutdown July 3rd due to severe weather, which damaged some control components of the GWTP. On July 6th, the input cards for the GWTP were reset and the system was restarted. The GWTP was also shutdown on July 21st, September 1st, and September 15th due to weather related issues and on September 23rd for routine maintenance. The GWTP was shut down September 27th while the GAC was exchanged. The system was then operated in recirculation mode until September 28th to remove fines from the new GAC. The system was brought back online and began discharging on September 29th.

The Off-Site Area ISVE system continued to operate as designed for approximately 70 percent of the third quarter of 2004 (based on days of operation). The system was shutdown periodically during the installation of the new Off-Site blower shed and other ISVE components. The system was also shutdown several times during the quarter for maintenance and due to heavy storms. During the month of July 2004 eleven ISVE wells were operating; SVE-04, SVE-05, SVE-13, SVE-20, SVE-23, SVE-25, SVE-26, SVE-29, SVE-38, SVE-39, and SVE-41. The same well configuration was used during August 2004. In September 2004 three additional wells were brought online; SVE-03, SVE-11, and SVE-16 for a total of fourteen operating ISVE wells.

The SBPA ISVE system continued to operate as designed for approximately 80 percent of the third quarter of 2004 (based on days of operation). The system was shut down on August 19th and 20th during the removal and replacement of one ISVE well and one air sparge point in the SBPA. The system was also temporarily down at various times throughout the month of September while grading and paving for the final On-Site cover took place. During the month of July 2004 nine ISVE wells were operating: SVE-44, SVE-46, SVE-49, SVE-51, SVE-64, SVE-66, SVE-80, SVE-82, and SVE-83. The same well configuration was used during August 2004. In September 2004 fourteen ISVE wells were operating; SVE-45, SVE-47, SVE-48, SVE-55, SVE-56, SVE-59, SVE-64, SVE-69, SVE-70, SVE-74, SVE-75, SVE-76, SVE-83, and SVE-87. Therm Ox 2 operated for approximately 80 percent of the third quarter of 2004 (based on days of operation).

8.0 REFERENCE

1. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, July 1997.
2. *Performance Standard Verification Plan, ACS NPL Site*, Montgomery Watson, June 1999.
3. *Phase I Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, July 1996.
4. *Phase II Technical Memorandum Wetland Investigation, ACS NPL Site*, Montgomery Watson, February 1997.
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6. *U.S. EPA Specifications and Guidance for Obtaining Contaminant-Free Sample Containers*, United States Environmental Protection Agency, 1992.
7. *Technical Memorandum SBPA ISVE System Evaluation, ACS NPL Site*, Montgomery Watson Harza, September 2004.

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ACRONYMS AND ABBREVIATIONS

AS	Air Sparge
AMSL	Above Mean Sea Level
BOD	Biological Oxygen Demand
BW	Barrier Wall
BWES	Barrier Wall Extraction System
cfm	cubic feet per minute
DL	Detection Limit
DPE	Dual Phase Extraction
EF1	effluent sample
GAC	Granular Activated Carbon
Global	Global Engineering, Inc.
GWTP	Groundwater Treatment Plant
IDEM	Indiana Department of Environmental Management
IN1	influent sample
IN2	duplicate influent sample
K-P	Kapica Pazmey
lb/hr	Pounds per hour
LDC	Laboratory Data Consultants
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
NC	Not Calculated
ND	Not Detected
NE	No Effluent Limit Established
NS	Not Sampled
OFCA	Off-Site Containment Area
PCBs	Polychlorinated Biphenyls
ppm	Parts per million
PGCS	Perimeter Groundwater Containment System
PSVP	Performance Standard Verification Plan
QAPP	Quality Assurance Project Plan
QA/QC	Quality Assurance/Quality Control
SBPA	Still Bottoms Pond Area
S.U.	Standard Units
SVOC	Semi-Volatile Organic Compounds
T-102	Aeration Equalization Tank
TOC	Top of Casing
TOIC	Top of Inner Casing
TOSG	Top of Staff Gauge
TSS	Total Suspended Solids
µg	Micrograms
µg/L	Micrograms per liter
U.S. EPA	United States Environmental Protection Agency
VOC	Volatile Organic Compounds

1.0 INTRODUCTION

MWH, on behalf of the ACS RD/RA Executive Committee, started up the on-site groundwater treatment system at the American Chemical Service NPL Site (ACS Site) in Griffith, Indiana on March 13, 1997. The groundwater treatment plant (GWTP) system was designed to treat groundwater from the Perimeter Groundwater Containment System (PGCS) and the Barrier Wall Extraction System (BWES). The original treatment consisted of a phase-separator for oil and free product removal, equalization tanks, a UV oxidation unit for destruction of organic constituents, and an air stripper to remove methylene chloride and other organics. The treatment also included a chemical precipitation and clarification unit to remove metals, a sand filter to remove suspended solids, and activated carbon vessels for final polishing of the treated groundwater before it was released to the wetlands west of the site.

In 2001, the GWTP was upgraded and an activated sludge treatment unit was added to the process to reduce the volatile and semivolatile organic compounds (VOCs and SVOCs) in the collected groundwater. The activated sludge treatment process also reduces the amount of activated carbon required to treat the water. An aerated equalization tank was also added to the GWTP in 2001 to remove VOCs from the collected groundwater, oxidize metals to increase metals removal efficiency in the chemical precipitation unit, and equalize groundwater flow through the GWTP. The activated sludge system and aeration tank have been fully integrated into the process along with the other upgrade components. Startup and optimization of the catalytic oxidizer/scrubber air treatment unit was also conducted during 2001.

The treated effluent from the treatment system is discharged to the nearby wetlands, west of the treatment system, in accordance with Agency approvals.

In the fall of 2001, MWH began construction of an In-Situ Vapor Extraction (ISVE) system for the Off-Site Containment Area (OFCA) and the Kapica-Pazmey (K-P) Area, both within the area known as the Off-Site Area. The Off-Site Area ISVE system consists of 42 ISVE wells, three air sparge wells, an ISVE and air sparge blower system, a thermal oxidizer/scrubber unit, and the associated mechanical and electrical components. The construction of the system was completed in March 2002 and the system was started on May 1, 2002 after the startup of the thermal oxidizer and scrubber system was completed. Protocols and goals for the phased startup of the Off-Site System as defined in the Final Remedy (Montgomery Watson, 1999) were followed. In 2004, an additional blower system was added to the Off-Site Area ISVE system.

In the beginning of 2003, MWH began construction of an ISVE system for the Still Bottoms Pond Area (SBPA). The SBPA ISVE system consists of 25 ISVE wells, 21 dual phase extraction (DPE) wells, six air sparge wells, ISVE and air sparge blower systems, and the associated mechanical and electrical components. The construction of the system was completed and the system was started in July of 2003. A new thermal oxidizer/scrubber unit

2.4 CATALYTIC OXIDIZER/SCRUBBER SAMPLING AND ANALYSIS

MWH began eight initial rounds of off-gas sampling of the catalytic oxidizer/scrubber as detailed in the PSVP (Montgomery Watson, April 1997) during April 2002. The eight rounds of sampling were completed during the third quarter of 2002. One sample was collected in October 2002 to verify the continued performance of the system. The off-gas was also sampled in December 2002 after repairs were made to the catalytic oxidizer/scrubber unit to ensure the unit was continuing to work properly. As discussed in the *Progress Report - November 2002 Activities* dated December 9, 2002, the off-gas sample from the catalytic oxidizer/scrubber will be sampled annually, in accordance with IDEM regulations and the PSVP. However, since the vapors generated by the GWTP are being treated by Therm Ox 2 and the catalytic oxidizer is not being operated continuously, annual samples of the catalytic oxidizer are only to be collected if the unit operates within that year.

During the third quarter of 2004 the catalytic oxidizer system was operated to treat vapors from aeration tank, T-102, due to maintenance work being performed on both ISVE systems. An off-gas sample was collected from the unit on September 16th and analyzed for VOCs by method TO-14 and SVOCs by method TO-13. The results of this sample are summarized in Tables 2.4 and 2.5 and the analytical data sheets are included in Appendix C. The VOC sample results indicate that the effluent VOC mass is approximately 0.11 pounds per hour (lb/hr). This is below the maximum permitted discharge limit of 3 lb/hr.

3.0 ISVE SYSTEM MONITORING

3.1 THERMAL OXIDIZER OFF-GAS SAMPLING

The thermal oxidizer/scrubber unit manufactured by Durr Engineering (designated as Therm Ox 1) did not operate during the third quarter 2004 because the unit's heat exchanger was being replaced. The new heat exchanger for the unit was delivered to the Site on September 9, 2004. The mechanical and electrical work for connecting the new heat exchanger was completed at the end of September and the test out of the heat exchanger is planned for October. Therm Ox 1 was not operating during this reporting period; therefore, no samples were collected from this unit.

The second thermal oxidizer/scrubber (therm ox) was manufactured by Global Engineering (Global) and is designated as Therm Ox 2. Therm Ox 2 was installed at the GWTP to treat the vapor collected by the SBPA and Off-Site Area ISVE system. Beginning in the third quarter of 2003, vapors from the SBPA ISVE system were treated by the new unit. Monthly compliance sampling of Therm Ox 2 began in July 2003 when the system was fully operational. In September 2003, the vapors from both the Off-Site Area ISVE and the SBPA ISVE systems were treated by Therm Ox 2. During the third quarter of 2004, compliance samples from Therm Ox 2 were collected on July 27th, August 12th, and September 27th.

Influent and effluent off-gas samples were collected directly from sampling taps on the influent pipe to the thermal oxidizer and the discharge stack of the scrubber. One influent sample (labeled IN1) and one effluent sample (EF1) were collected. A duplicate influent sample (IN2) was also collected. The samples were collected in accordance with laboratory guidelines to comply with the PSVP and QAPP. The VOC samples were collected using a summa canister and the SVOC samples were collected in sorbent tubes.

Sampling Frequency Schedule – ISVE System

Startup	Weekly for a four week start-up period
Post-Startup	Monthly in accordance with the IDEM Air Permit Equivalency

Following sample collection, the SVOC sample containers were maintained at or below 4°C in coolers. Chain-of-Custody forms were prepared to track the transfer of samples from the treatment system to the laboratories for extraction and analysis. In accordance with the approved QAPP, the off-gas samples were analyzed by the following analytical methods:

<u>Parameter</u>	<u>Analytical Method</u>
VOCs	TO-14
SVOCs	TO-13

Table 2.1
Groundwater Treatment System Effluent Discharge Limits
American Chemical Service NPL Site
Griffith, Indiana

Groundwater Quality Parameter	Effluent Standard (Limit)
General Water Quality Parameters	
pH	6 - 9 S.U.
BOD-5	30 mg/L
TSS	30 mg/L
Inorganics	
Arsenic	50 µg/L
Beryllium	NE
Cadmium	4.1 µg/L
Manganese	NE
Mercury	0.02 µg/L (w/DL = 0.64)
Selenium	8.2 µg/L
Thallium	NE
Zinc	411 µg/L
Volatile Organics	
Acetone	6,800 µg/L
Benzene	5 µg/L
2-Butanone	210 µg/L
Chloromethane	NE
1,4 – Dichlorobenzene	NE
1,1 – Dichloroethane	NE
1,2 – Dichloroethene – cis	70 µg/L
Ethylbenzene	34 µg/L
Methylene chloride	5 µg/L
Tetrachloroethene	5 µg/L
Trichloroethene	5 µg/L
Vinyl chloride	2 µg/L
4 – Methyl - 2 – pentanone	15 µg/L
Semi-Volatile Organics	
bis(2 – Chloroethyl) ether	9.6 µg/L
bis(2 – Ethylhexyl) phthalate	6 µg/L
Isophorone	50 µg/L
4 – Methylphenol	34 µg/L
Pentachlorophenol	1 µg/L
PCBs	
PCBs	0.00056 µg/L (w/DL = 0.1 to 0.9)

Notes:

NE = No effluent limit established.

DL = Detection limit

S.U. = Standard pH units

µg/L = micrograms per Liter

Table 2.2
Summary of Effluent Analytical Results - Third Quarter 2004
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

Event Date	Month 86 7/8/2004	Month 87 8/12/2004	Month 88 9/7/2004	Effluent Limits	Lab Reporting Limits
pH	7.11 /J	7.62 /J	7.72	6-9	none
TSS	3.2 /B	NS	NS	30	10
BOD	2.1	NS	NS	30	2
Arsenic	3.2 B	NS	NS	50	3.4
Beryllium	ND	NS	NS	NE	0.2
Cadmium	0.26 B/UB	NS	NS	4.1	0.3
Manganese	7.9 B/UB	NS	NS	NE	10
Mercury	ND /UJ	NS	NS	0.02 (w/DL = 0.64)	0.64
Selenium	ND	NS	NS	8.2	4.3
Thallium	ND	NS	NS	NE	5.7
Zinc	7.6 B	NS	NS	411	1.2
Benzene	ND	ND	ND	5	0.5
Acetone	2.6 /J	1.3 JB/UBJ	2.5	6,800	3
2-Butanone	ND /UJ	ND	ND	210	3
Chloromethane	ND /UJ	0.13 JB/ 0.5 UBJ	ND	NE	0.5
1,4-Dichlorobenzene	ND /UJ	ND	ND	NE	0.5
1,1-Dichloroethane	ND /UJ	ND	ND	NE	0.5
cis-1,2-Dichloroethene	0.27 J/J	ND	ND	70	0.5
Ethylbenzene	ND /UJ	1.7 /J	ND	34	0.5
Methylene chloride	0.69 /J	ND	3.3	5	0.6
Tetrachloroethene	ND /UJ	ND	ND	5	0.5
Trichloroethene	0.14 JB/ 0.5 UBJ	ND	ND	5	0.5
Vinyl chloride	ND /UJ	ND	ND	2	0.5
4-Methyl-2-pentanone	ND /UJ	ND	ND	15	3
bis (2-Chloroethyl) ether	ND	NS	NS	9.6	9.6
bis(2-Ethylhexyl) - phthalate	ND	NS	NS	6	6
4 - Methylphenol	ND	NS	NS	34	10
Isophorone	ND	NS	NS	50	10
Pentachlorophenol	ND	NS	NS	1	1
PCB/Aroclor-1016	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1221	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.92*
PCB/Aroclor-1232	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1242	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1248	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1254	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5
PCB/Aroclor-1260	ND	NS	NS	0.00056 (w/DL = 0.1 to 0.9)	0.5

Notes:

Bolded result indicates a exceedence of the discharge limit.

pH data is expressed in Standard Units.

Metals, VOC, SVOC and PCB data is expressed in ug/L.

ND = Not detected

NS = This analyte was not sampled or analyzed.

NE = No effluent limit established.

DL = Detection Limit

* = Approved SW-846 method is incapable of achieving effluent limit.

The holding time for pH is 48 hours. pH results are estimated if the reading is taken more than 48 hours after collection.

Suffix Definitions:

/ = Data qualifier added by laboratory.

/_ = Data qualifier added by data validator.

B = Compound is also detected in the blank.

E = Compound exceeds the upper level of calibration range of instrument.

J = Result is detected below the reporting limit and is an estimated concentration.

JB = Analyte is detected in the sample below the reporting limit and is an estimated concentration. The compound is also detected in the method blank resulting in a potential high bias.

U = Analyte is not detected at or above the indicated concentration.

UB = Analyte is not detected at or above the indicated concentration due to blank contamination

UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

UBJ = Analyte is not detected at or above the indicated concentration due to blank contamination, however the calibration was out of range. Therefore, the concentration is estimated.

Table 2.5
Summary of Catalytic Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - September 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/16/2004	
		Therm-Ox 1	Effluent EF1
Hexachlorobenzene	µg	ND	U
Hexachlorobutadiene	µg	ND	U
Hexachlorocyclopentadiene	µg	ND	U
Hexachloroethane	µg	ND	U
Indeno(1,2,3-c,d)pyrene	µg	ND	U
Isophorone	µg	ND	U
Naphthalene	µg	1.1	
Nitrobenzene	µg	ND	U
N-Nitroso-di-n-propylamine	µg	ND	U
N-Nitrosodiphenylamine	µg	ND	U
Pentachlorophenol	µg	ND	U
Phenanthrene	µg	ND	U
Phenol	µg	ND	U
Pyrene	µg	ND	U
Total	µg	7.73	

Notes:

/ = Laboratory data qualifier

/_ = Data validation qualifier

ND = Non-detect

µg = micrograms

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results
for VOCs (Method TO-14) - Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/27/2004					
		Therm-Ox 2			Destruction Efficiency		
Influent IN1	Influent IN2	Effluent EF1	Low	High	Average		
1,1,1-Trichloroethane	ppbv	58,000	63,000	110	99.81%	99.83%	99.82%
1,1,2,2-Tetrachloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
1,1-Dichloroethane	ppbv	6,200	6,500	13	99.79%	99.80%	99.80%
1,1-Dichloroethene	ppbv	1,100 J/J	1,200 J/J	4	NC	NC	NC
1,2-Dichloroethane	ppbv	1,400	1,600	3 J/J	NC	NC	NC
1,2-Dichloropropane	ppbv	1,100 J/J	ND U	2.2 J/J	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	10,000	10,000	52	99.48%	99.48%	99.48%
2-Hexanone	ppbv	ND U	ND U	ND U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	7,500	8,500	20	NC	NC	NC
Acetone	ppbv	17,000	18,000	190	98.88%	98.94%	98.91%
Benzene	ppbv	34,000	38,000	92	99.73%	99.76%	99.74%
Bromodichloromethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Bromoform	ppbv	ND U	ND U	ND U	NC	NC	NC
Bromomethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Carbon Disulfide	ppbv	ND U	ND U	ND U	NC	NC	NC
Carbon Tetrachloride	ppbv	ND U	ND U	ND U	NC	NC	NC
Chlorobenzene	ppbv	ND U	ND U	ND U	NC	NC	NC
Chloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Chloroform	ppbv	3,700	3,800	7.2	99.81%	99.81%	99.81%
Chloromethane	ppbv	ND U	ND U	3.4 J/J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	35,000	37,000	80	99.77%	99.78%	99.78%
cis-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC
Dibromochloromethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Ethyl Benzene	ppbv	82,000	93,000	200	99.76%	99.78%	99.77%
m,p-Xylene	ppbv	390,000	440,000	1,000	99.74%	99.77%	99.76%
Methylene Chloride	ppbv	38,000	40,000	70	99.82%	99.83%	99.82%
o-Xylene	ppbv	150,000	170,000	420	99.72%	99.75%	99.74%
Styrene	ppbv	ND U	ND U	ND U	NC	NC	NC
Tetrachloroethene	ppbv	140,000	160,000	320	99.77%	99.80%	99.79%
Toluene	ppbv	500,000	550,000	1,000	99.80%	99.82%	99.81%
trans-1,2-Dichloroethene	ppbv	ND U	ND U	ND U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC
Trichloroethene	ppbv	50,000	56,000	100	99.80%	99.82%	99.81%
Vinyl Chloride	ppbv	1,200 J/J	1,400 U	8.7	NC	NC	NC
Total	ppbv	1,526,200	1,698,000	3,696	99.76%	99.78%	99.77%
Total	lb/hr	55.61	62.02	0.13	99.76%	99.79%	99.78%

Notes:

/ = Laboratory data qualifier

/_ = Data validation qualifier

ND = Non-detect

NC = Not calculated

ppbv = parts per billion volume

lb/hr = pounds per hour

Destruction efficiencies were not calculated if the either influent samples or the effluent sample was estimated.

The total concentration and mass loading were calculated using all detected concentrations including estimated detections (denoted with J or UJ qualifiers).

7/23/04 VOCs in lb/hr calculated based on Offsite: 958 scfm, 74 degrees Fahrenheit and Onsite: 791 scfm, 70 degrees Fahrenheit (8/6/04)

8/12/04 VOCs in lb/hr calculated based on Offsite: 958 scfm, 74 degrees Fahrenheit and Onsite: 791 scfm, 70 degrees Fahrenheit (8/6/04).

9/27/04 VOCs in lb/hr calculated based on Offsite: 992 scfm, 75 degrees Fahrenheit and Onsite: 1208 scfm, 75 degrees Fahrenheit (9/30/04).

Therm-Ox VOC lb/hr based on assumption of 70 degrees Fahrenheit

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

Table 3.2
Summary of Thermal Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - Third Quarter 2004
American Chemical Service NPL Site,
Griffith, Indiana

Compounds	Units	Sampled 9/27/2004						
		Therm-Ox 2			Destruction Efficiency			Low
		Influent IN1	Influent IN2	Effluent EF1				
bis(2-Chloroethoxy) Methane	µg	ND	U	ND	U	ND	NC	NC
bis(2-Chloroethyl) Ether	µg	ND	U	ND	U	ND	NC	NC
bis(2-Ethylhexyl)phthalate	µg	2.8	J/J	3.2	J/J	0.76	J/J	NC
Butylbenzylphthalate	µg	0.72	J/J	ND	U	ND	NC	NC
Chrysene	µg	ND	U	ND	U	ND	NC	NC
Dibenz(a,h)anthracene	µg	ND	U	ND	U	ND	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	NC	NC
Diethylphthalate	µg	0.32	J/J	ND	U	0.23	J/J	NC
Dimethylphthalate	µg	ND	U	ND	U	ND	NC	NC
di-n-Butylphthalate	µg	0.79	J/J	0.59	J/J	0.43	J/J	NC
Di-n-Octylphthalate	µg	ND	U	ND	U	ND	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	NC	NC
Fluorene	µg	ND	U	ND	U	ND	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	NC	NC
Hexachlorobutadiene	µg	9.1		9.6		ND	U	100.00%
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	100.00%
Hexachloroethane	µg	ND	U	ND	U	ND	U	100.00%
Indeno(1,2,3-c,d)pyrene	µg	ND	U	ND	U	ND	U	100.00%
Isophorone	µg	25		28		ND	U	100.00%
Naphthalene	µg	150		170		ND	U	100.00%
Nitrobenzene	µg	ND	U	ND	U	ND	U	100.00%
N-Nitroso-di-n-propylamine	µg	ND	U	ND	U	ND	U	100.00%
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	100.00%
Pentachlorophenol	µg	ND	U	ND	U	ND	U	100.00%
Phenanthrene	µg	ND	U	ND	U	ND	U	100.00%
Phenol	µg	ND	U	ND	U	ND	U	100.00%
Pyrene	µg	ND	U	ND	U	ND	U	100.00%
Total	µg	431.23		469.49		1.58		99.63%
								99.66%
								99.65%

Notes:

/ = Laboratory data qualifier

/_ = Data validation qualifier

ND = Non-detect

NC = Not calculated

µg = micrograms

The total concentration was calculated using all detected concentrations including estimated detections (denoted with J or UJ qualifiers).

Destruction efficiencies were not calculated if the either influent samples or the effluent sample was estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

B = The compound was detected in an associated blank

JB = Analyte is detected in the compliance sample below the reporting limit and is an estimated concentration and the compound is also detected in the method blank resulting in a potential high bias.



February 25, 2005

Mr. Kevin Adler
Remedial Project Manager
U.S. Environmental Protection Agency
Region V, SR-6J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

Re: Quarterly Monitoring Report for Active Treatment Systems – Third Quarter 2004
ACS NPL Site

Dear Mr. Adler:

Please find enclosed three copies of the Quarterly Monitoring Report for Active Treatment Systems – Third Quarter 2004 for your review. This is the first submittal of this report (see Summary of Report Status below).

We are also sending three copies of the report to Indiana Department of Environmental Management (IDEM) and one copy of the report to Black & Veatch (B&V). If you need additional copies, please let me know and we will forward them to you.

Sincerely,

MWH Americas, Inc.

A handwritten signature in black ink, appearing to read "Peter J. Vagt".

For Peter J. Vagt, Ph.D., CPG
Vice President

Summary of Report Status

- February 7 – Draft of Quarterly Monitoring Report for Active Treatment Systems – Third Quarter 2004 sent to the Technical Review Group for review and comment
- February 21 – Comments received from Technical Review Group
- February 25 – Draft Quarterly Monitoring Report for Active Treatment Systems – Third Quarter 2004 sent to the Agencies.

cc: Prabhakar Kasarabada, IDEM (3 copies)
Larry Campbell, B&V (1 copy)
Barbara Magel, Karaganis White & Magel, LTD. (1 copy)
Mark Travers, Environ (1 copy)
ACS Tech Review Committee (1 copy each – cover letter only)

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Tables

TABLES

Table 2.1
Groundwater Treatment System Effluent Discharge Limits
American Chemical Service NPL Site
Griffith, Indiana

Groundwater Quality Parameter	Effluent Standard (Limit)
General Water Quality Parameters	
pH	6 - 9 S.U.
BOD-5	30 mg/L
TSS	30 mg/L
Inorganics	
Arsenic	50 µg/L
Beryllium	NE
Cadmium	4.1 µg/L
Manganese	NE
Mercury	0.02 µg/L (w/DL = 0.64)
Selenium	8.2 µg/L
Thallium	NE
Zinc	411 µg/L
Volatile Organics	
Acetone	6,800 µg/L
Benzene	5 µg/L
2-Butanone	210 µg/L
Chloromethane	NE
1,4 - Dichlorobenzene	NE
1,1 - Dichloroethane	NE
1,2 - Dichloroethene - cis	70 µg/L
Ethylbenzene	34 µg/L
Methylene chloride	5 µg/L
Tetrachloroethene	5 µg/L
Trichloroethene	5 µg/L
Vinyl chloride	2 µg/L
4 - Methyl - 2 - pentanone	15 µg/L
Semi-Volatile Organics	
bis(2 - Chloroethyl) ether	9.6 µg/L
bis(2 - Ethylhexyl) phthalate	6 µg/L
Isophorone	50 µg/L
4 - Methylphenol	34 µg/L
Pentachlorophenol	1 µg/L
PCBs	
PCBs	0.00056 µg/L (w/DL = 0.1 to 0.9)

Note: Notes:

NE = No effluent limit established.

DL = Detection limit

S.U. = Standard pH units

µg/L = micrograms per Liter

Table 2.3
Summary of Sediment Analytical Results
Groundwater Treatment System
American Chemical Service NPL Site
Griffith, Indiana

PCB Compound	Results (ug/kg)										
	12/4/1998	2/3/2000	2/3/00 DUP	8/21/2001	8/21/01 DUP	6/5/2002	6/5/02 DUP	1/13/04	1/13/04 DUP	9/27/04	9/27/04 DUP
Aroclor-1016	ND (33)	ND (59)	ND (79)	ND (62) /UJ	ND (71)	ND (52) /UJ	ND (49)	ND (67)	ND (76)	ND (62)	ND (78)
Aroclor-1221	ND (33)	ND (77)	ND (100)	ND (82) /UJ	ND (92)	ND (67) /UJ	ND (64)	ND (84)	ND (95)	ND (84)	ND (110)
Aroclor-1232	ND (33)	ND (59)	ND (79)	ND (62) /UJ	ND (71)	ND (52) /UJ	ND (49)	ND (67)	ND (76)	ND (62)	ND (78)
Aroclor-1242	ND (33)	ND (41)	ND (55)	ND (43) /UJ	ND (49) /UJ	ND (36) /UJ	ND (34)	ND (42)	ND (48)	ND (42)	ND (53)
Aroclor-1248	ND (33)	ND (41)	ND (55)	ND (43) /UJ	ND (49) /UJ	ND (36) /UJ	ND (34)	ND (42)	ND (48)	ND (42)	ND (53)
Aroclor-1254	ND (33)	22 J/	15 J/	73 P/J	39 JP/J	ND (36) /UJ	ND (34)	ND (42)	ND (48)	ND (42)	ND (53)
Aroclor-1260	ND (33)	ND (59)	ND (79)	ND (62) /UJ	ND (71) /UJ	41 J/J	ND (49)	35 J	ND (76)	ND (62)	ND (78)
Total PCBs⁴	ND	22	15	73	39	41	ND	35	ND	ND	ND

Notes:

- 1 ND () = Compound was not detected. The detection limit is included in parentheses
- 2 December 4, 1998 sample was analyzed by Quanterra. All other samples were analyzed by Compuchem.
- 3 DUP = Duplicate sample
- 4 The total PCB value presented here are estimated totals based on estimated concentrations of individual Aroclors

Suffix Definitions:

- / = Data qualifier added by laboratory
- /_ = Data qualifier added by data validator
- J = Result is detected below the reporting limit and is an estimated concentration
- P = The Relative Percent Difference (RPD) between the two GC column values is greater than 25%. The higher value has been reported.
- JP = The Relative Percent Difference (RPD) between the two GC column values is greater than 25%. The higher value has been reported. The concentration is also estimated.
- UJ = Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Table 2.4
Summary of Catalytic Oxidizer Off-Gas Analytical Results
for VOCs (Method TO-14) - September 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/16/2004	
		Catalytic Oxidizer	
		Effluent EF1	
1,1,1-Trichloroethane	ppbv	95	
1,1,2,2-Tetrachloroethane	ppbv	4.9	J/J
1,1,2-Trichloroethane	ppbv	ND	U
1,1-Dichloroethane	ppbv	110	
1,1-Dichloroethene	ppbv	260	
1,2-Dichloroethane	ppbv	36	
1,2-Dichloropropane	ppbv	ND	U
2-Butanone (Methyl Ethyl Ketone)	ppbv	120	
2-Hexanone	ppbv	ND	U
4-Methyl-2-pentanone	ppbv	95	J/J
Acetone	ppbv	260	
Benzene	ppbv	1,400	
Bromodichloromethane	ppbv	ND	U
Bromoform	ppbv	ND	U
Bromomethane	ppbv	ND	U
Carbon Disulfide	ppbv	ND	U
Carbon Tetrachloride	ppbv	ND	U
Chlorobenzene	ppbv	150	
Chloroethane	ppbv	150	
Chloroform	ppbv	30	
Chloromethane	ppbv	200	
cis-1,2-Dichloroethene	ppbv	3,200	
cis-1,3-Dichloropropene	ppbv	ND	U
Dibromochloromethane	ppbv	ND	U
Ethyl Benzene	ppbv	110	
m,p-Xylene	ppbv	440	
Methylene Chloride	ppbv	210	J
o-Xylene	ppbv	180	
Styrene	ppbv	44	
Tetrachloroethene	ppbv	5,200	
Toluene	ppbv	1,000	
trans-1,2-Dichloroethene	ppbv	570	
trans-1,3-Dichloropropene	ppbv	ND	U
Trichloroethene	ppbv	1,000	
Vinyl Chloride	ppbv	260	
Total	ppbv	15,125	
Total	lb/hr	0.11	

Notes:

/ = Laboratory data qualifier

/ = Data validation qualifier

ppbv = parts per billion volume

lb/hr = pounds per hour

9/16/04 VOCs in lb/hr calculated based on T-102: 400 scfm and 70 degrees Fahrenheit

ND = Not detected

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

Table 2.5
Summary of Catalytic Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - September 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/16/2004	
		Therm-Ox 1	Effluent EF1
1,2,4-Trichlorobenzene	µg	ND	U
1,2-Dichlorobenzene	µg	2.6	
1,3-Dichlorobenzene	µg	0.78	J/J
1,4-Dichlorobenzene	µg	0.65	J/J
2,4,5-Trichlorophenol	µg	ND	U
2,4,6-Trichlorophenol	µg	ND	U
2,4-Dichlorophenol	µg	ND	U
2,4-Dimethylphenol	µg	ND	U
2,4-Dinitrophenol	µg	ND	U
2,4-Dinitrotoluene	µg	ND	U
2,6-Dinitrotoluene	µg	ND	U
2-Chloronaphthalene	µg	ND	U
2-Chlorophenol	µg	ND	U
2-Methylnaphthalene	µg	0.3	J/J
2-Methylphenol (o-Cresol)	µg	ND	U
2-Nitroaniline	µg	ND	U
2-Nitrophenol	µg	ND	U
3,3'-Dichlorobenzidine	µg	ND	U
3-Nitroaniline	µg	ND	U
4,6-Dinitro-2-methylphenol	µg	ND	U
4-Bromophenyl-phenyl Ether	µg	ND	U
4-Chloro-3-methylphenol	µg	ND	U
4-Chloroaniline	µg	ND	U
4-Chlorophenyl-phenyl Ether	µg	ND	U
4-Methylphenol	µg	ND	U
4-Nitroaniline	µg	ND	U
4-Nitrophenol	µg	ND	U
Acenaphthene	µg	ND	U
Acenaphthylene	µg	ND	U
Anthracene	µg	ND	U
Benzo(a)anthracene	µg	ND	U
Benzo(a)pyrene	µg	ND	U
Benzo(b)fluoranthene	µg	ND	U
Benzo(g,h,i)perylene	µg	ND	U
Benzo(k)fluoranthene	µg	ND	U
bis(2-Chloroethoxy) Methane	µg	ND	U
bis(2-Chloroethyl) Ether	µg	ND	U
bis(2-Ethylhexyl)phthalate	µg	2.3	J/J
Butylbenzylphthalate	µg	ND	U
Chrysene	µg	ND	U
Dibenz(a,h)anthracene	µg	ND	U
Dibenzofuran	µg	ND	U
Diethylphthalate	µg	ND	U
Dimethylphthalate	µg	ND	U
di-n-Butylphthalate	µg	ND	U
Di-n-Octylphthalate	µg	ND	U
Fluoranthene	µg	ND	U
Fluorene	µg	ND	U

Table 2.5
Summary of Catalytic Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - September 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/16/2004	
		Therm-Ox 1	Effluent EF1
Hexachlorobenzene	µg	ND	U
Hexachlorobutadiene	µg	ND	U
Hexachlorocyclopentadiene	µg	ND	U
Hexachloroethane	µg	ND	U
Indeno(1,2,3-c,d)pyrene	µg	ND	U
Isophorone	µg	ND	U
Naphthalene	µg	1.1	
Nitrobenzene	µg	ND	U
N-Nitroso-di-n-propylamine	µg	ND	U
N-Nitrosodiphenylamine	µg	ND	U
Pentachlorophenol	µg	ND	U
Phenanthrene	µg	ND	U
Phenol	µg	ND	U
Pyrene	µg	ND	U
Total	µg	7.73	

Notes:

/ = Laboratory data qualifier

/ = Data validation qualifier

ND = Non-detect

µg = micrograms

Qu: Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results
for VOCs (Method TO-14) - Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 7/23/04						Sampled 8/12/2004					
		Therm-Ox 2			Destruction Efficiency			Therm-Ox 2			Destruction Efficiency		
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average
1,1,1-Trichloroethane	ppbv	70,000	72,000	1,100	98.43%	98.47%	98.45%	92,000	100,000	1,300	98.59%	98.70%	98.64%
1,1,2,2-Tetrachloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
1,1-Dichloroethane	ppbv	7,400	7,400	140	98.11%	98.11%	98.11%	12,000	13,000	200	98.33%	98.46%	98.40%
1,1-Dichloroethene	ppbv	ND U	ND U	470	NC	NC	NC	2,000 J/J	2,000 J/J	560	NC	NC	NC
1,2-Dichloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC	1,900 J/J	2,100 J/J	44	NC	NC	NC
1,2-Dichloropropane	ppbv	1,400 J/J	1,300 J/J	21	J/J	NC	NC	1,500 J/J	1,600 J/J	22	J/J	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	13,000	13,000	290	97.77%	97.77%	97.77%	14,000	16,000	360	97.43%	97.75%	97.59%
2-Hexanone	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	12	J/J	NC	NC
4-Methyl-2-pentanone	ppbv	6,600 J/J	7,200 J/J	120	J/J	NC	NC	7,500 J/J	9,200 J/J	140	NC	NC	NC
Acetone	ppbv	24,000	21,000	480	97.71%	98.00%	97.86%	26,000	29,000	610	97.65%	97.90%	97.78%
Benzene	ppbv	42,000	46,000	1,300	96.90%	97.17%	97.04%	48,000	51,000	1,400	97.08%	97.25%	97.17%
Bromodichloromethane	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	13	J/J	NC	NC
Bromoform	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Bromomethane	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Carbon Disulfide	ppbv	4,100 J/J	2,000 J/J	12	J/J	NC	NC	2,200 J/J	2,500 J/J	ND U	NC	NC	NC
Carbon Tetrachloride	ppbv	ND U	ND U	14	J/J	NC	NC	ND U	ND U	18	J/J	NC	NC
Chlorobenzene	ppbv	ND U	ND U	28	J/J	NC	NC	ND U	ND U	21	J/J	NC	NC
Chloroethane	ppbv	1,700 J/J	ND U	30	J/J	NC	NC	ND U	ND U	ND U	NC	NC	NC
Chloroform	ppbv	3,700	3,800	120	96.76%	96.84%	96.80%	5,400	5,500	150	97.22%	97.27%	97.25%
Chloromethane	ppbv	ND U	ND U	140	NC	NC	NC	ND U	ND U	160	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	43,000	44,000	960	97.77%	97.82%	97.79%	53,000	58,000	910	98.28%	98.43%	98.36%
cis-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Dibromochloromethane	ppbv	ND U	ND U	6	J/J	NC	NC	ND U	ND U	ND U	NC	NC	NC
Ethyl Benzene	ppbv	51,000	58,000	1,200	97.65%	97.93%	97.79%	66,000	70,000	1,100	98.33%	98.43%	98.38%
m,p-Xylene	ppbv	200,000	230,000	4,900	97.55%	97.87%	97.71%	290,000	320,000	4,600	98.41%	98.56%	98.49%
Methylene Chloride	ppbv	30,000	31,000	650	97.83%	97.90%	97.87%	64,000	68,000	1,200	98.13%	98.24%	98.18%
o-Xylene	ppbv	72,000	84,000	1,800	97.50%	97.86%	97.68%	95,000	110,000	1,600	98.32%	98.55%	98.43%
Styrene	ppbv	ND U	ND U	360	NC	NC	NC	ND U	ND U	270	NC	NC	NC
Tetrachloroethene	ppbv	100,000	120,000	3,100	96.90%	97.42%	97.16%	140,000	140,000	2,900	97.93%	97.93%	97.93%
Toluene	ppbv	410,000	450,000	9,200	97.76%	97.96%	97.86%	490,000	520,000	8,200	98.33%	98.42%	98.37%
trans-1,2-Dichloroethene	ppbv	ND U	ND U	94	J/J	NC	NC	ND U	ND U	96	J/J	NC	NC
trans-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Trichloroethene	ppbv	59,000	60,000	1,400	97.63%	97.67%	97.65%	65,000	73,000	1,400	97.85%	98.08%	97.96%
Vinyl Chloride	ppbv	1,600 J/J	1,700 J/J	98	NC	NC	NC	3,800	3,600	160	95.56%	95.79%	95.67%
Total	ppbv	1,140,500	1,252,400	28,033	97.54%	97.76%	97.65%	1,479,300	1,594,500	27,446	98.14%	98.28%	98.21%
Total	lb/hr	32.73	36.18	0.811	97.52%	97.76%	97.64%	42.73	45.93	0.789	98.15%	98.28%	98.22%

Table 3.1
Summary of Thermal Oxidizer Off-Gas Analytical Results
for VOCs (Method TO-14) - Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

Compounds	Units	Sampled 9/27/2004					
		Therm-Ox 2			Destruction Efficiency		
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average
1,1,1-Trichloroethane	ppbv	58,000	63,000	110	99.81%	99.83%	99.82%
1,1,2,2-Tetrachloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
1,1,2-Trichloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
1,1-Dichloroethane	ppbv	6,200	6,500	13	99.79%	99.80%	99.80%
1,1-Dichloroethene	ppbv	1,100 J/J	1,200 J/J	4	NC	NC	NC
1,2-Dichloroethane	ppbv	1,400	1,600	3 J/J	NC	NC	NC
1,2-Dichloropropane	ppbv	1,100 J/J	ND U	2.2 J/J	NC	NC	NC
2-Butanone (Methyl Ethyl Ketone)	ppbv	10,000	10,000	52	99.48%	99.48%	99.48%
2-Hexanone	ppbv	ND U	ND U	ND U	NC	NC	NC
4-Methyl-2-pentanone	ppbv	7,500	8,500	20	NC	NC	NC
Acetone	ppbv	17,000	18,000	190	98.88%	98.94%	98.91%
Benzene	ppbv	34,000	38,000	92	99.73%	99.76%	99.74%
Bromodichloromethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Bromoform	ppbv	ND U	ND U	ND U	NC	NC	NC
Bromomethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Carbon Disulfide	ppbv	ND U	ND U	ND U	NC	NC	NC
Carbon Tetrachloride	ppbv	ND U	ND U	ND U	NC	NC	NC
Chlorobenzene	ppbv	ND U	ND U	ND U	NC	NC	NC
Chloroethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Chloroform	ppbv	3,700	3,800	7.2	99.81%	99.81%	99.81%
Chloromethane	ppbv	ND U	ND U	3.4 J/J	NC	NC	NC
cis-1,2-Dichloroethene	ppbv	35,000	37,000	80	99.77%	99.78%	99.78%
cis-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC
Dibromochloromethane	ppbv	ND U	ND U	ND U	NC	NC	NC
Ethyl Benzene	ppbv	82,000	93,000	200	99.76%	99.78%	99.77%
m,p-Xylene	ppbv	390,000	440,000	1,000	99.74%	99.77%	99.76%
Methylene Chloride	ppbv	38,000	40,000	70	99.82%	99.83%	99.82%
o-Xylene	ppbv	150,000	170,000	420	99.72%	99.75%	99.74%
Styrene	ppbv	ND U	ND U	ND U	NC	NC	NC
Tetrachloroethene	ppbv	140,000	160,000	320	99.77%	99.80%	99.79%
Toluene	ppbv	500,000	550,000	1,000	99.80%	99.82%	99.81%
trans-1,2-Dichloroethene	ppbv	ND U	ND U	ND U	NC	NC	NC
trans-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	NC	NC	NC
Trichloroethene	ppbv	50,000	56,000	100	99.80%	99.82%	99.81%
Vinyl Chloride	ppbv	1,200 J/J	1,400 U	8.7	NC	NC	NC
Total	ppbv	1,526,200	1,698,000	3,696	99.76%	99.78%	99.77%
Total	lb/hr	55.61	62.02	0.13	99.76%	99.79%	99.78%

Notes:

/ = Laboratory data qualifier

/ = Data validation qualifier

ND = Non-detect

NC = Not calculated

ppbv = parts per billion volume

lb/hr = pounds per hour

Destruction efficiencies were not calculated if the either influent samples or the effluent sample was estimated.

The total concentration and mass loading were calculated using all detected concentrations concentrations including estimated detections (denoted with J or UJ qualifiers):

7/23/04 VOCs in lb/hr calculated based on Offsite: 958 scfm, 74 degrees Fahrenheit and Onsite: 791 scfm, 70 degrees Fahrenheit (8/6/04)

8/12/04 VOCs in lb/hr calculated based on Offsite: 958 scfm, 74 degrees Fahrenheit and Onsite: 791 scfm, 70 degrees Fahrenheit (8/6/04).

9/27/04 VOCs in lb/hr calculated based on Offsite: 992 scfm, 75 degrees Fahrenheit and Onsite: 1208 scfm, 75 degrees Fahrenheit (9/30/04).

Therm-Ox VOC lb/hr based on assumption of 70 degrees Fahrenheit

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

Table 3.2
Summary of Thermal Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - Third Quarter 2004
American Chemical Service NPL Site,
Griffith, Indiana

Compounds	Units	Sampled 7/23/2004						Sampled 8/12/2004					
		Therm-Ox 2			Destruction Efficiency			Therm-Ox 2			Destruction Efficiency		
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average
1,2,4-Trichlorobenzene	µg	1.3	1.6	ND U	100.00%	100.00%	100.00%	2.1	2.0	ND U	100.00%	100.00%	100.00%
1,2-Dichlorobenzene	µg	98	110	1.3	98.67%	98.82%	98.75%	120	110	0.86 JJ	NC	NC	NC
1,3-Dichlorobenzene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
1,4-Dichlorobenzene	µg	15	17	ND U	100.00%	100.00%	100.00%	20	18	ND U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,4-Dichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,4-Dimethylphenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,4-Dinitrophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2-Chloronaphthalene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2-Chlorophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2-Methylnaphthalene	µg	16	22	ND U	100.00%	100.00%	100.00%	24	25	ND U	100.00%	100.00%	100.00%
2-Methylphenol (o-Cresol)	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
2-Nitrophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
3,3'-Dichlorobenzidine	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
3-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Bromophenyl-phenyl Ether	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Chloroaniline	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Methylphenol	µg	ND U	4.2 JJ	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
4-Nitrophenol	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Acenaphthene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Acenaphthylene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Anthracene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Benzo(a)anthracene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Benzo(a)pyrene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Benzo(b)fluoranthene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Benzo(g,h,i)perylene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC
Benzo(k)fluoranthene	µg	ND U	ND U	ND U	NC	NC	NC	ND U	ND U	ND U	NC	NC	NC

Table 3.2
Summary of Thermal Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - Third Quarter 2004
American Chemical Service NPL Site,
Griffith, Indiana

Compounds	Units	Sampled 7/23/2004						Sampled 8/12/2004											
		Therm-Ox 2			Destruction Efficiency			Therm-Ox 2			Destruction Efficiency								
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average	Influent IN1	Influent IN2	Effluent EF1	Low	High	Average						
bis(2-Chloroethoxy) Methane	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	NC	NC	NC		
bis(2-Chloroethyl) Ether	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	NC	NC	NC		
bis(2-Ethylhexyl)phthalate	µg	5.8		0.64	J/J	1.6	J/J	NC	NC	NC	0.67	J/J	3.8	J/J	ND	U	NC	NC	NC
Butylbenzylphthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	NC	NC	NC	NC	
Chrysene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Dibenz(a,h)anthracene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Dibenzofuran	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Diethylphthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Dimethylphthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
di-n-Butylphthalate	µg	0.43	J/J	0.78	J/J	0.58	J/J	NC	NC	NC	0.43	J/J	0.31	J/J	ND	U	NC	NC	NC
Di-n-Octylphthalate	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Fluoranthene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Fluorene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Hexachlorobutadiene	µg	4.1		4.3		ND	U	100.00%	100.00%	100.00%	6.0		5.4		ND	U	100.00%	100.00%	100.00%
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Hexachloroethane	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Indeno(1,2,3-c,d)pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Isophorone	µg	18		19		ND	U	100.00%	100.00%	100.00%	16		15		ND	U	100.00%	100.00%	100.00%
Naphthalene	µg	79	B	95	B	0.94	JB/B	NC	NC	NC	100		100		0.44	J/J	NC	NC	NC
Nitrobenzene	µg	ND	U	8		ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitroso-di-n-propylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Phenanthrene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Phenol	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Pyrene	µg	ND	U	ND	U	ND	U	NC	NC	NC	ND	U	ND	U	ND	U	NC	NC	NC
Total	µg	237.63		282.52		4.42		98.14%	98.44%	98.29%	289.20		279.51		1.30		99.53%	99.55%	99.54%

Table 3.2
Summary of Thermal Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - Third Quarter 2004
American Chemical Service NPL Site,
Griffith, Indiana

Compounds	Units	Sampled 9/27/2004					
		Therm-Ox 2			Destruction Efficiency		
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average
1,2,4-Trichlorobenzene	µg	2.6	3	ND U	100.00%	100.00%	100.00%
1,2-Dichlorobenzene	µg	150	160	ND U	100.00%	100.00%	100.00%
1,3-Dichlorobenzene	µg	8.6	9.3	ND U	100.00%	100.00%	100.00%
1,4-Dichlorobenzene	µg	23	23	ND U	100.00%	100.00%	100.00%
2,4,5-Trichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC
2,4,6-Trichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC
2,4-Dichlorophenol	µg	ND U	ND U	ND U	NC	NC	NC
2,4-Dimethylphenol	µg	5.1	5 J/J	ND U	NC	NC	NC
2,4-Dinitrophenol	µg	ND U	ND U	ND U	NC	NC	NC
2,4-Dinitrotoluene	µg	ND U	ND U	ND U	NC	NC	NC
2,6-Dinitrotoluene	µg	ND U	ND U	ND U	NC	NC	NC
2-Chloronaphthalene	µg	0.2	J/J	ND U	ND U	NC	NC
2-Chlorophenol	µg	ND U	ND U	ND U	NC	NC	NC
2-Methylnaphthalene	µg	43	47	ND U	100.00%	100.00%	100.00%
2-Methylphenol (o-Cresol)	µg	3.4 J/J	3.4 J/J	ND U	NC	NC	NC
2-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC
2-Nitrophenol	µg	ND U	ND U	ND U	NC	NC	NC
3,3'-Dichlorobenzidine	µg	ND U	ND U	ND U	NC	NC	NC
3-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC
4,6-Dinitro-2-methylphenol	µg	ND U	ND U	ND U	NC	NC	NC
4-Bromophenyl-phenyl Ether	µg	ND U	ND U	ND U	NC	NC	NC
4-Chloro-3-methylphenol	µg	ND U	ND U	ND U	NC	NC	NC
4-Chloroaniline	µg	ND U	ND U	ND U	NC	NC	NC
4-Chlorophenyl-phenyl Ether	µg	ND U	ND U	ND U	NC	NC	NC
4-Methylphenol	µg	6.6	7.4	ND U	100.00%	100.00%	100.00%
4-Nitroaniline	µg	ND U	ND U	ND U	NC	NC	NC
4-Nitrophenol	µg	ND U	ND U	ND U	NC	NC	NC
Acenaphthene	µg	ND U	ND U	ND U	NC	NC	NC
Acenaphthylene	µg	ND U	ND U	ND U	NC	NC	NC
Anthracene	µg	ND U	ND U	ND U	NC	NC	NC
Benzo(a)anthracene	µg	ND U	ND U	0.16 J/J	NC	NC	NC
Benzo(a)pyrene	µg	ND U	ND U	ND U	NC	NC	NC
Benzo(b)fluoranthene	µg	ND U	ND U	ND U	NC	NC	NC
Benzo(g,h,i)perylene	µg	ND U	ND U	ND U	NC	NC	NC
Benzo(k)fluoranthene	µg	ND U	ND U	ND U	NC	NC	NC

Table 3.2
Summary of Thermal Oxidizer Off-Gas Analytical Results
for SVOCs (Method TO-13) - Third Quarter 2004
American Chemical Service NPL Site,
Griffith, Indiana

Compounds	Units	Sampled 9/27/2004					
		Therm-Ox 2			Destruction Efficiency		
		Influent IN1	Influent IN2	Effluent EF1	Low	High	Average
bis(2-Chloroethoxy) Methane	µg	ND	U	ND	U	NC	NC
bis(2-Chloroethyl) Ether	µg	ND	U	ND	U	NC	NC
bis(2-Ethylhexyl)phthalate	µg	2.8	J/J	3.2	J/J	0.76	J/J
Butylbenzylphthalate	µg	0.72	J/J	ND	U	NC	NC
Chrysene	µg	ND	U	ND	U	NC	NC
Dibenz(a,h)anthracene	µg	ND	U	ND	U	NC	NC
Dibenzofuran	µg	ND	U	ND	U	NC	NC
Diethylphthalate	µg	0.32	J/J	ND	U	0.23	J/J
Dimethylphthalate	µg	ND	U	ND	U	NC	NC
di-n-Butylphthalate	µg	0.79	J/J	0.59	J/J	0.43	J/J
Di-n-Octylphthalate	µg	ND	U	ND	U	NC	NC
Fluoranthene	µg	ND	U	ND	U	NC	NC
Fluorene	µg	ND	U	ND	U	NC	NC
Hexachlorobenzene	µg	ND	U	ND	U	NC	NC
Hexachlorobutadiene	µg	9.1		9.6		ND	U
Hexachlorocyclopentadiene	µg	ND	U	ND	U	NC	NC
Hexachloroethane	µg	ND	U	ND	U	NC	NC
Indeno(1,2,3-c,d)pyrene	µg	ND	U	ND	U	NC	NC
Isophorone	µg	25		28		ND	U
Naphthalene	µg	150		170		ND	U
Nitrobenzene	µg	ND	U	ND	U	ND	U
N-Nitroso-di-n-propylamine	µg	ND	U	ND	U	NC	NC
N-Nitrosodiphenylamine	µg	ND	U	ND	U	NC	NC
Pentachlorophenol	µg	ND	U	ND	U	NC	NC
Phenanthrene	µg	ND	U	ND	U	NC	NC
Phenol	µg	ND	U	ND	U	ND	U
Pyrene	µg	ND	U	ND	U	NC	NC
Total	µg	431.23		469.49		1.58	
					99.63%	99.66%	99.65%

Notes:

/ = Laboratory data qualifier

/_ = Data validation qualifier

ND = Non-detect

NC = Not calculated

µg = micrograms

The total concentration was calculated using all detected concentrations including estimated detections (denoted with J or UJ qualifiers).

Destruction efficiencies were not calculated if the either influent samples or the effluent sample was estimated.

Destruction efficiencies were also not calculated if the effluent result exceeded either influent result.

Qualifiers:

J = Result is estimated

U = Below reported quantitation limit

B = The compound was detected in an associated blank

R = Quality control indicates the data is not usable

JB = Analyte is detected in the compliance sample below the reporting limit and is an estimated concentration and the compound is also detected in the method blank resulting in a potential high bias.

Table 3.3
Summary of In-Situ Vapor Extraction (ISVE) System Influent Monitoring Data
for VOCs (Method TO-14) – Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Compounds	Units	Sampled 7/23/04		Sampled 8/12/2004		9/27/2004	
		Off-Site ISVE System	On-Site ISVE System	Off-Site ISVE System	On-Site ISVE System	Off-Site ISVE System	On-Site ISVE System
1,1,1-Trichloroethane	ppbv	88,000	94,000	160,000	100,000	74,000	58,000
1,1,2-Tetrachloroethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
1,1,2-Trichloroethane	ppbv	ND U	ND U	900 J/J	ND U	540 J/J	ND U
1,1-Dichloroethane	ppbv	11,000	7,100	23,000	8,500	10,000	4,300
1,1-Dichloroethene	ppbv	ND U	ND U	2,100	2,200 J/J	2,200	1,200 J/J
1,2-Dichloroethane	ppbv	2,800	ND U	4,700	ND U	2,800	750 J/J
1,2-Dichloropropane	ppbv	ND U	ND U	1,200 J/J	2,300 J/J	940 J/J	ND U
2-Butanone (Methyl Ethyl Ketone)	ppbv	37,000	ND U	51,000	2,500 J	26,000	2,200 J/J
2-Hexanone	ppbv	780 J/J	ND U	900 J/J	ND U	ND U	ND U
4-Methyl-2-pentanone	ppbv	19,000	ND U	21,000	2,300 J/J	14,000	3,700 J/J
Acetone	ppbv	48,000	ND U	66,000	8,200 J/J	46,000	7,200 J/J
Benzene	ppbv	54,000	51,000	83,000	48,000	47,000	33,000
Bromodichloromethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Bromoform	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Bromomethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Carbon Disulfide	ppbv	1,800 J/J	940 J/J	ND U	2,200 J/J	ND U	1,400 J/J
Carbon Tetrachloride	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Chlorobenzene	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Chloroethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Chloroform	ppbv	5,000	4,600	10,000	5,300	4,400	4,000
Chloromethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
cis-1,2-Dichloroethene	ppbv	9,100	80,000	18,000	88,000	7,400	60,000
cis-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Dibromochloromethane	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Ethyl Benzene	ppbv	34,000	110,000	59,000	120,000	43,000	120,000
m,p-Xylene	ppbv	130,000	450,000	260,000	550,000	180,000	550,000
Methylene Chloride	ppbv	68,000	13,000	180,000	20,000	88,000	11,000
o-Xylene	ppbv	47,000	170,000	90,000	190,000	66,000	210,000
Styrene	ppbv	ND U	ND U	ND U	ND U	3,300	ND U
Tetrachloroethene	ppbv	61,000	220,000	100,000	250,000	71,000	220,000
Toluene	ppbv	340,000	770,000	540,000	800,000	340,000	650,000
trans-1,2-Dichloroethene	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
trans-1,3-Dichloropropene	ppbv	ND U	ND U	ND U	ND U	ND U	ND U
Trichloroethene	ppbv	55,000	94,000	88,000	98,000	49,000	59,000
Vinyl Chloride	ppbv	350 J/J	1,800 J/J	1,400 U	3,000 J/J	ND U	ND U
Total	ppbv	1,011,830	2,066,440	1,760,200	2,300,500	1,075,580	1,995,750
Total	lb/hr	15.23	27.51	26.61	30.67	16.84	40.26

Notes:

/ = Laboratory data qualifier
/_ = Data validation qualifier
ND = Non-detect
ppbv = parts per billion volume

lb/hr = pounds per hour
J = Result is estimated
U = Below reported quantitation limit
deg F = degrees Fahrenheit

7/23/04 and 8/12/04 VOCs in lb/hr calculated based on Offsite: 958 scfm, 74 deg F and Onsite: 791 scfm, 70 deg F (8/6/04)
9/27/04 VOCs in lb/hr calculated based on Offsite: 992 scfm, 75 deg F and Onsite: 1208 scfm, 75 deg F (9/30/04).

Table 3.4
Summary of In-Situ Vapor Extraction (ISVE) System Influent Monitoring Data
for SVOCs (Method TO-13) – Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Compounds	Units	7/23/2004		Sampled 8/12/2004		Sampled 9/27/2004	
		Off-Site ISVE System		On-Site ISVE System		Off-Site ISVE System	
		Influent IN1	Influent IN1	Influent IN1	Influent IN1	Influent IN1	Influent IN1
1,2,4-Trichlorobenzene	µg	1.6	J/J	ND	U	3.1	0.61 J/J
1,2-Dichlorobenzene	µg	65		120		120	92
1,3-Dichlorobenzene	µg	ND	U	ND	U	ND	3.4
1,4-Dichlorobenzene	µg	8.1		ND	U	17.0	
2,4,5-Trichlorophenol	µg	ND	U	ND	U	ND	ND U
2,4,6-Trichlorophenol	µg	ND	U	ND	U	ND	ND U
2,4-Dichlorophenol	µg	ND	U	ND	U	ND	ND U
2,4-Dimethylphenol	µg	ND	U	ND	U	ND	5.2
2,4-Dinitrophenol	µg	ND	U	ND	U	ND	ND U
2,4-Dinitrotoluene	µg	ND	U	ND	U	ND	ND U
2-Chloronaphthalene	µg	ND	U	ND	U	ND	ND U
2-Chlorophenol	µg	ND	U	ND	U	ND	ND U
2-Methylnaphthalene	µg	11		32		18	34
2-Methylphenol (o-Cresol)	µg	ND	U	ND	U	ND	2.8 J/J
2-Nitroaniline	µg	ND	U	ND	U	ND	ND U
2-Nitrophenol	µg	ND	U	ND	U	ND	ND U
3,3'-Dichlorobenzidine	µg	ND	U	ND	U	ND	ND U
3-Nitroaniline	µg	ND	U	ND	U	ND	ND U
4,6-Dinitro-2-methylphenol	µg	ND	U	ND	U	ND	ND U
4-Bromophenyl-phenyl Ether	µg	ND	U	ND	U	ND	ND U
4-Chloro-3-methylphenol	µg	ND	U	ND	U	ND	ND U
4-Chloroaniline	µg	ND	U	ND	U	ND	ND U
4-Chlorophenyl-phenyl Ether	µg	ND	U	ND	U	ND	ND U
4-Methylphenol	µg	8.3	J/J	ND	U	ND	6.4
4-Nitroaniline	µg	ND	U	ND	U	ND	ND U
4-Nitrophenol	µg	ND	U	ND	U	ND	ND U
Acenaphthene	µg	ND	U	ND	U	ND	ND U
Acenaphthylene	µg	ND	U	ND	U	ND	ND U
Anthracene	µg	ND	U	ND	U	ND	ND U
Benzo(a)anthracene	µg	ND	U	ND	U	ND	ND U
Benzo(a)pyrene	µg	ND	U	ND	U	ND	ND U
Benzo(b)fluoranthene	µg	ND	U	ND	U	ND	ND U
Benzo(g,h,i)perylene	µg	ND	U	ND	U	ND	ND U
Benzo(k)fluoranthene	µg	ND	U	ND	U	ND	ND U
bis(2-Chloroethoxy) Methane	µg	ND	U	ND	U	ND	ND U
bis(2-Chloroethyl) Ether	µg	ND	U	ND	U	ND	ND U
bis(2-Ethylhexyl)phthalate	µg	33		0.61 J/J		2.4 J/J	2 J/J
Butylbenzylphthalate	µg	ND	U	ND	U	ND	0.47 J/J
Chrysene	µg	ND	U	ND	U	ND	ND U

Table 3.4
Summary of In-Situ Vapor Extraction (ISVE) System Influent Monitoring Data
for SVOCs (Method TO-13) – Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Compounds	Units	7/23/2004		Sampled 8/12/2004		Sampled 9/27/2004	
		Off-Site ISVE System		On-Site ISVE System		Off-Site ISVE System	
		Influent IN1	Influent IN1	Influent IN1	Influent IN1	Influent IN1	Influent IN1
Dibenz(a,h)anthracene	µg	ND	U	ND	U	ND	U
Dibenzofuran	µg	ND	U	ND	U	ND	U
Diethylphthalate	µg	2.6	J/J	ND	U	ND	U
Dimethylphthalate	µg	ND	U	ND	U	ND	U
di-n-Butylphthalate	µg	ND	U	0.58	J/J	0.3	J/J
Di-n-Octylphthalate	µg	ND	U	ND	U	ND	U
Fluoranthene	µg	ND	U	ND	U	ND	U
Fluorene	µg	ND	U	ND	U	ND	U
Hexachlorobenzene	µg	ND	U	ND	U	ND	U
Hexachlorobutadiene	µg	2.9		3.2		7.8	
Hexachlorocyclopentadiene	µg	ND	U	ND	U	ND	U
Hexachloroethane	µg	ND	U	ND	U	ND	U
Indeno(1,2,3-c,d)pyrene	µg	ND	U	ND	U	ND	U
Isophorone	µg	19		ND	U	30	
Naphthalene	µg	290	B/J	88	B/J	96	
Nitrobenzene	µg	ND	U	ND	U	ND	U
N-Nitroso-di-n-propylamine	µg	ND	U	ND	U	ND	U
N-Nitrosodiphenylamine	µg	ND	U	ND	U	ND	U
Pentachlorophenol	µg	ND	U	ND	U	ND	U
Phenanthrene	µg	ND	U	ND	U	ND	U
Phenol	µg	23		ND	U	ND	
Pyrene	µg	ND	U	ND	U	ND	U
Total	µg	464.50		244.39		292.24	
						274.31	251.78
							444.84

Notes:

/ = Laboratory data qualifier

/ = Data validation qualifier

ND = Non-detect

µg = micrograms

Qualifiers:

J = Result is estimated

U = below reported quantitation limit

JB = Analyte is detected in the compliance sample below the reporting limit and is an estimated concentration and the compound is also detected in the method blank resulting in a potential high bias.

B = The compound was detected in an associated blank

Table 3.5
Off Site In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac ("H ₂ O)	VOCs (ppm)	Comments
SVE-03	8/25/2004	0	44	102	
	9/30/2004	0	39	NM	VOCs not measured
SVE-04	8/6/2004	NA	60	NM	Liquid in pipe.
	8/25/2004	108	59	405	
	9/30/2004	0	56	NM	VOCs not measured
SVE-05	8/6/2004	57	56	58.7	
	8/25/2004	0	40	410	
	9/30/2004	0	39	NM	VOCs not measured
SVE-11	8/25/2004	-	39	79.9	
	9/30/2004	-	39	NM	VOCs not measured
SVE-13	8/6/2004	0	50	102	
	8/25/2004	0	36	406	
SVE-16	8/25/2004	83	38	1023	
	9/30/2004	40	34	NM	VOCs not measured
SVE-20	8/6/2004	55	60	3.4	
	8/25/2004	0	48	6.4	
	9/30/2004	0	46	NM	VOCs not measured
SVE-23	8/6/2004	86	46	544	
	8/25/2004	112	36	1962	
	9/30/2004	94	34	NM	VOCs not measured
SVE-25	8/6/2004	131	58	561	
	8/25/2004	116	45	1263	
	9/30/2004	116	44	NM	VOCs not measured
SVE-26	8/6/2004	0	53	75.1	Liquid in pipe.
	8/25/2004	0	38	53	
	9/30/2004	0	36	NM	VOCs not measured
SVE-29	8/6/2004	48	53	70.1	
	8/25/2004	27	34	573	
	9/30/2004	27	33	NM	VOCs not measured
SVE-38	8/6/2004	0	57	1167	
	8/25/2004	0	43	2778	
	9/30/2004	27	40	NM	VOCs not measured
SVE-39	8/6/2004	101	46	294	
	8/25/2004	102	37	486	
	9/30/2004	79	34	NM	VOCs not measured
SVE-41	8/6/2004	0	53	1178	
	8/25/2004	0	42	2595	
	9/30/2004	28	40	NM	VOCs not measured

Notes:

"-" = data not collected
 cfm = cubic feet per minute

" H₂O = inches of water
 ppm = parts per million
 VOCs = volatile organic compounds

No VOC readings were collected on 9/30/2004 due to a photoionization detector (PID) malfunction.

Table 3.6
Off-Site In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data
Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Date	KP1 Line Press (psia)	KP1 Flow (cfm)	KP1 Vacuum (" H ₂ O)	KP2 Line Press (psia)	KP2 Flow (scfm)	KP2 Vac (" H ₂ O)	OFCA1 Vac (" H ₂ O)	OFCA2 Vac (" H ₂ O)	OFCA3 Vac (" H ₂ O)	Dilution Flow (cfm)	Blower Inf Line Press (psia)	Blower Inf Flow (scfm)	Blower Inf Vac (" H ₂ O)
8/6/2004	13.0	-	52	13.0	608	50	50	40	47	0	12.8	721	56
8/25/2004	13.2	-	42	13.3	-	40	40	30	38	0	13.0	229	48
9/30/2004	13.4	-	40	13.4	1002	39	39	30	36	0	13.1	710	47

Date	Blower Inf VOC (ppm)	Blower Inf Temp.	Blower Eff Line Press	Blower Eff Flow	Blower Eff Press	Blower Eff VOC	Blower Eff Temp.	Filter Diff Press	Ambient Temperature	Barometric Pressure	Humidity (%)
8/6/2004	-	74	15.7	958	24.0	-	134	6.0	70	30.20	56
8/25/2004	-	78	15.7	981	27.5	-	141	6.5	72	29.92	78
9/30/2004	-	75	15.8	992	27.0	-	131	6.5	70	30.12	46

Notes:

" " = data not collected

cfm = cubic feet per minute

"H₂O = inches of water

ppm = parts per million

VOCs = volatile organic compounds

psia = pounds per square inch, atmosphere

"Hg = inches of mercury

"F = degrees Fahrenheit

Table 3.7
SBPA In-Situ Soil Vapor Extraction (ISVE) System Well Monitoring Data
Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Well ID	Date	Flow (cfm)	Vac ("H ₂ O)	VOCs (ppm)	Comments
SVE-44	8/6/2004	16	100	55.1	Vac reading actually >100".
SVE-45	9/30/2004	12	60	NM	VOCs not measured
SVE-46	8/6/2004	NA	100	264	Vac reading actually >100". Liquid in line prevented measurement of diff press.
SVE-47	9/30/2004	27	64	NM	VOCs not measured
SVE-48	9/30/2004	NA	63	NM	VOCs not measured Obstruction in riser.
SVE-49	8/6/2004	11	100	496	Vac reading actually >100".
SVE-51	8/6/2004	13	100	620	Vac reading actually >100".
SVE-55	9/30/2004	32	57	NM	VOCs not measured
SVE-56	9/30/2004	101	59	NM	VOCs not measured
SVE-59	9/30/2004	0	60	NM	VOCs not measured
SVE-64	8/6/2004	33	100	970	Vac reading actually >100".
	9/30/2004	18	64	NM	VOCs not measured
SVE-66	8/6/2004	13	100	1533	Vac reading actually >100".
SVE-69	9/30/2004	101	60	NM	VOCs not measured
SVE-70	9/30/2004	25	66	NM	VOCs not measured
SVE-74	9/30/2004	22	68	NM	VOCs not measured
SVE-75	9/30/2004	135	63	NM	VOCs not measured
SVE-76	9/30/2004	181	60	NM	
SVE-80	8/6/2004	12	100	741	Vac reading actually >100".
SVE-82	8/6/2004	12	100	940	Vac reading actually >100".
SVE-83	8/6/2004	25	100	1920	Vac reading actually >100".
	9/30/2004	0	75	NM	VOCs not measured
SVE-87	9/30/2004	80	68	NM	VOCs not measured

Notes:

" " = data not collected

cfm = cubic feet per minute

" H₂O = inches of water

NA = Not analyzed

NM = Not measured

ppm = parts per million

VOCs = Volatile organic compounds

Vac = Vacuum

No VOC readings were collected on 9/30/2004 due to a photoionization detector (PID) malfunction.

Table 3.8
SBPA In-Situ Soil Vapor Extraction (ISVE) System Header Monitoring Data
Third Quarter 2004
American Chemical Services NPL Site
Griffith, Indiana

Date	Line Pressure (psia)	Flow (scfm)	Vac (" H ₂ O)	Line Press (psia)	Flow (scfm)	Vac (" H ₂ O)	Dilution Flow (cfm)	Blower Inf Line Press (psia)	Blower Inf Flow (scfm)	Blower Inf Vac (" H ₂ O)	Blower Inf VOC (ppm)
8/6/2004	11.2	303	100	11.2	214	100	0	11.2	0	100	-
9/30/2004	12.2	609	72	12.2	157	73	0	14.8	0	0	-

Date	Blower Inf Temp. (°F)	Blower Eff Line Press (psia)	Blower Eff Flow (scfm)	Blower Eff Press (" H ₂ O)	Blower Eff VOC (ppm)	Blower Eff Temp. (°F)	Filter Diff Press (" H ₂ O)	Ambient Temperature (°F)	Barometric Pressure (" Hg)	Humidity (%)
8/6/2004	70	14.8	791	0.0	-	106	13.0	70	30.20	56
9/30/2004	75	14.9	1208	4.0	-	150	17.5	70	30.12	46

Notes:

"." = data not collected

scfm = cubic feet per minute

"H₂O = inches of water

ppm = parts per million

VOCs = volatile organic compounds

psia = pounds per square inch, atmosphere

" Hg = inches of mercury

°F = degrees Fahrenheit

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS
Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

Upper Aquifer Wells

Well Designation	Reference Points			9/20/2004		Notes	Difference Across Barrier Wall (if applicable) ¹
	East	North	TOIC	level	Elevation		
MW11	6377	7329	640.47	8.93	631.54		n/a
MW13	5050	7814	634.08	4.58	629.50		n/a
MW37	5395	7976	636.78	7.52	629.26		n/a
MW46	4526	7424	633.32	3.15	630.17		n/a
MW48	5669	7814	636.36	7.01	629.35		n/a
MW49	5551	7650	637.00	7.41	629.59		n/a

Staff Gauges & Piezometers

Well Designation	Reference Points			9/20/2004		Notes	Difference Across Barrier Wall (if applicable) ¹
	East	North	TOSG	level	Elevation		
P23	4689	7018	636.18	7.62	628.56		n/a
P25	5131	7510	635.01	6.49	628.52		n/a
P26	4764	7309	634.23	6.23	628.00		n/a
P27	4904	7020	639.70	11.43	628.27		n/a
P28	5883	7486	644.53	13.78	630.75		n/a
P32	5746	7026	642.32	12.65	629.67		n/a
P40	5931	7241	638.77	7.25	631.52		n/a
P41	5663	7377	637.23	6.20	631.03		n/a
P49	5145	6949	638.98	9.66	629.32		n/a
SG13	4819	7209	631.53	4.5	630.0	TOSG = 6.0' mark	n/a

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS
Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

PGCS Piezometer Sets

Well Designation	Reference Points			9/20/2004		Notes	Difference Across Barrier Wall (if applicable) ¹
	East	North	TOC	level	Elevation		
P81	5577	7581	636.19	DRY	DRY		n/a
P82	5577	7572	635.77	6.99	628.78		n/a
P83	5577	7561.6	635.95	6.52	629.43		n/a
P84	5322	7603	634.35	5.77	628.58		n/a
P85	5326	7594	634.08	5.48	628.60		n/a
P86	5329	7585	634.41	5.80	628.61		n/a
P87	5121	7466	633.88	5.37	628.51		n/a
P88	5130	7460	633.90	5.46	628.44		n/a
P89	5137	7454	634.02	5.62	628.40		n/a
P90	4881	7152	634.45	5.68	628.77		n/a
P91	4889	7145	634.59	6.04	628.55		n/a
P92	4896	7138.1	633.87	5.21	628.66		n/a

Table 6.1
Water Table Elevations Across the Barrier Wall and Near the PGCS
Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

BWES Water Level and Piezometer Pairs

Well Designation	Reference Points			9/20/2004		Notes	Difference Across Barrier Wall (if applicable) ¹
	East	North	TOC	level	Elevation		
P93 - Outside BW	5136	7067	638.79	CNM	CNM	Does not exist - to be replaced	n/a
P94 - Inside BW	5146	7061	638.98	CNM	CNM	Does not exist - to be replaced	
P95 - Outside BW	5146	6532	638.58	10.30	628.28		0.11
P96 - Inside BW	5156	6537	641.26	12.87	628.39		
P105 - Outside BW	5885	6678	638.86	6.71	632.15		-2.86
P106 - Inside BW	5871	6685	638.10	8.81	629.29		
P107 - Outside BW	5766	7339	637.42	6.00	631.42		-1.29
P108 - Inside BW	5757	7324	638.13	8.00	630.13		
P109 - Outside BW	5740	6387	644.30	12.00	632.30		-4.34
P110 - Inside BW	5705	6382	647.68	19.72	627.96		
P111 - Outside BW	5551	5950	650.03	17.80	632.23		-4.86
P112 - Inside BW	5525	5960	653.36	25.99	627.37		
P113 - Inside BW	5309	5693	657.53	30.14	627.39		-4.40
ORCPZ102 - Outside BW	5331	5612	652.47	20.68	631.79		
P114 - Inside BW	5035	5729	653.69	25.98	627.71		-5.69
P115 - Outside BW	4970	5708	652.50	19.10	633.40		
P116 - Inside BW	5031	6087	646.26	18.48	627.78		-2.31
P117 - Outside BW	5014	6087	643.93	13.84	630.09		
P118 - Inside BW	5402	6539	645.52	17.90	627.62		n/a

Notes:

All depth measurements and elevations are in units of feet.

Elevation is in feet above mean sea level.

TOIC = top of inner casing

TOC = top of casing

TOSG = top of staff gauge

CNM = could not measure (reason given under "Notes" column)

n/a = not applicable

¹ = A positive value indicates that the water level is higher inside the barrier wall. A negative value indicates that the water level is lower inside the barrier wall.

Table 6.2
Water Levels Inside Barrier Wall
Third Quarter 2004
American Chemical Service NPL Site
Griffith, Indiana

Date	On-Site Area					
	Target Level	P-29	P-31	P-32	P-36	P-49
7/2/2004	629.0	630.4	630.9	630.0	624.9	629.7
7/30/2004	629.0	630.4	630.9	630.7	624.9	629.5
9/17/2004	629.0	630.4	630.9	629.7	625.8	629.4

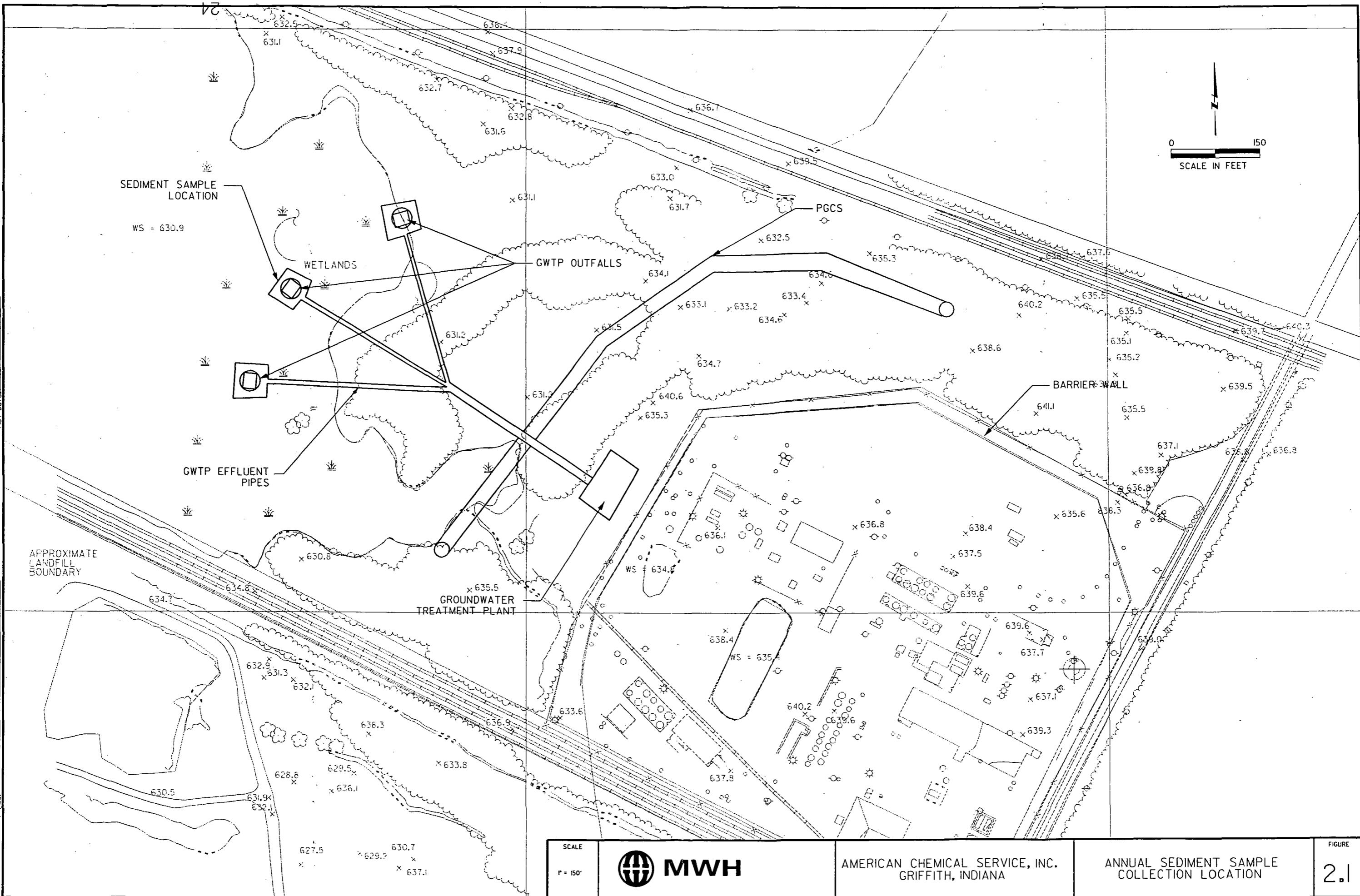
Date	Off-Site Area										
	Target Level	P-96	P-110	P-112	P-113	P-114	P-116	P-118	AS-7	AS-8	AS-9
7/2/2004	626.0	624.6	627.9	627.2	626.9	627.3	627.0	627.4	628.18	628.55	627.80
7/30/2004	626.0	624.9	627.9	627.3	627.0	627.4	627.1	627.4	628.09	628.35	627.75
9/17/2004	626.0	625.1	628.0	627.4	627.4	627.8	627.9	627.6	628.22	628.75	627.93

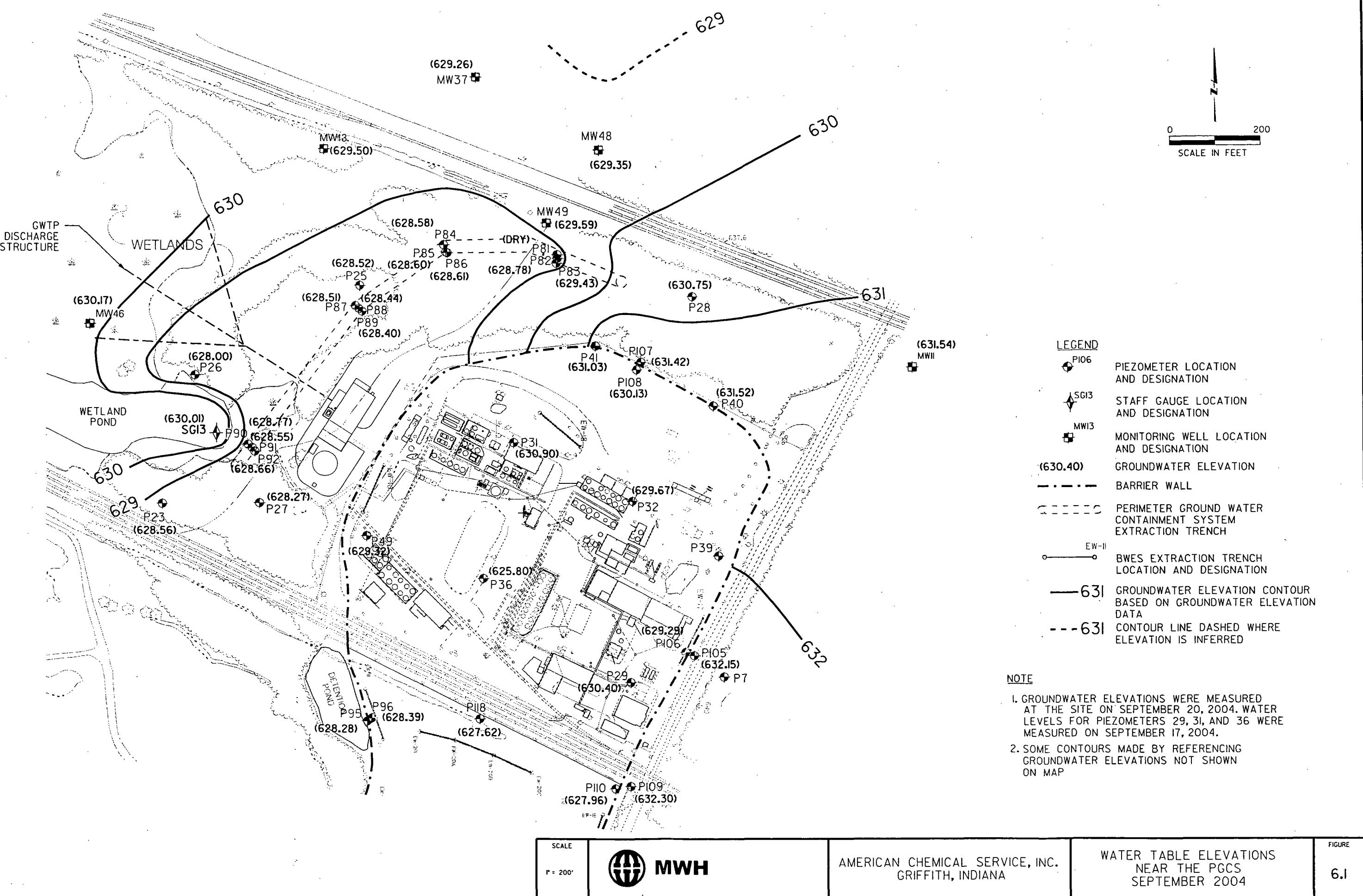
Notes:

All water level elevations are in feet AMSL

Figures

FIGURES





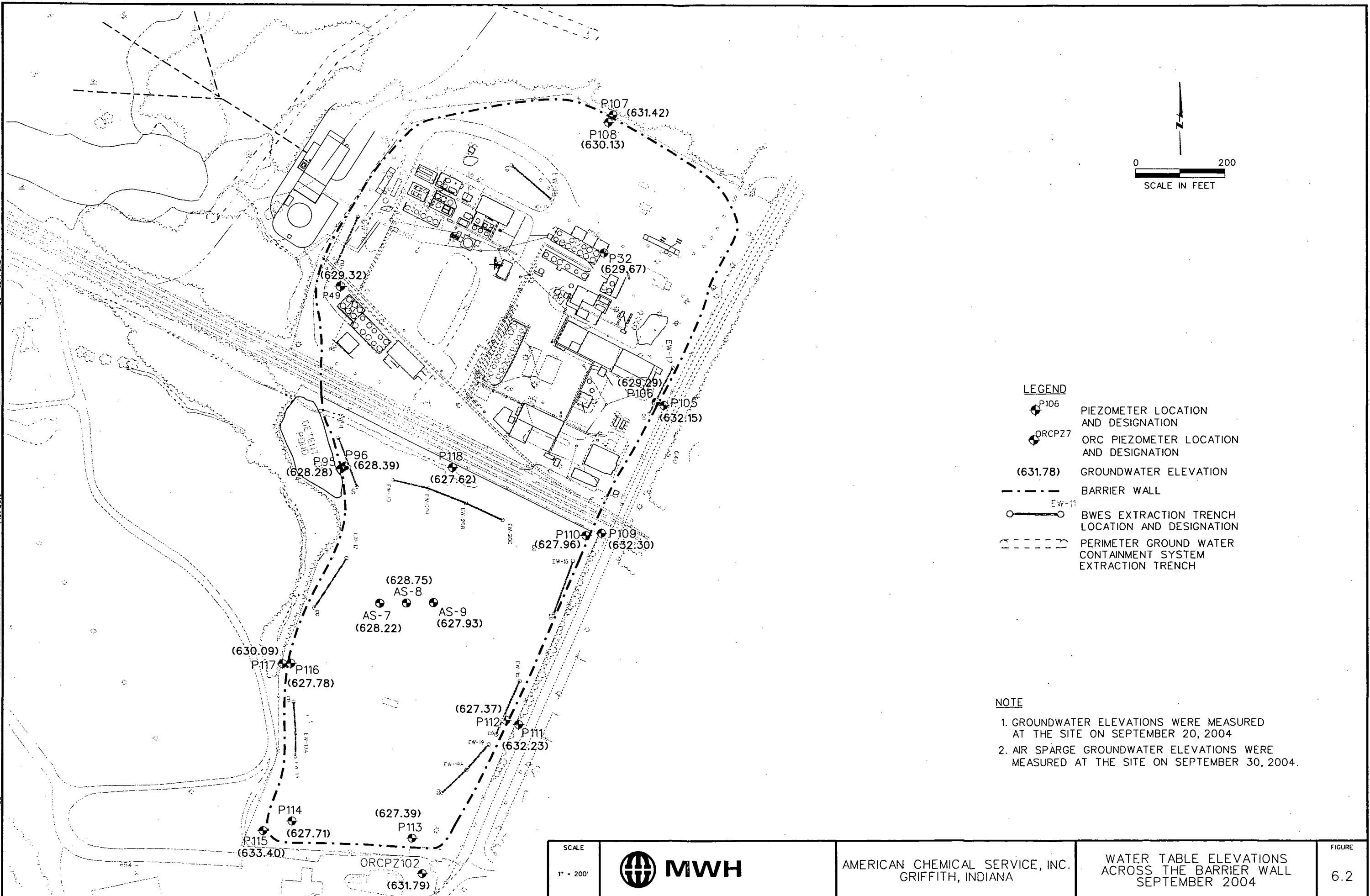
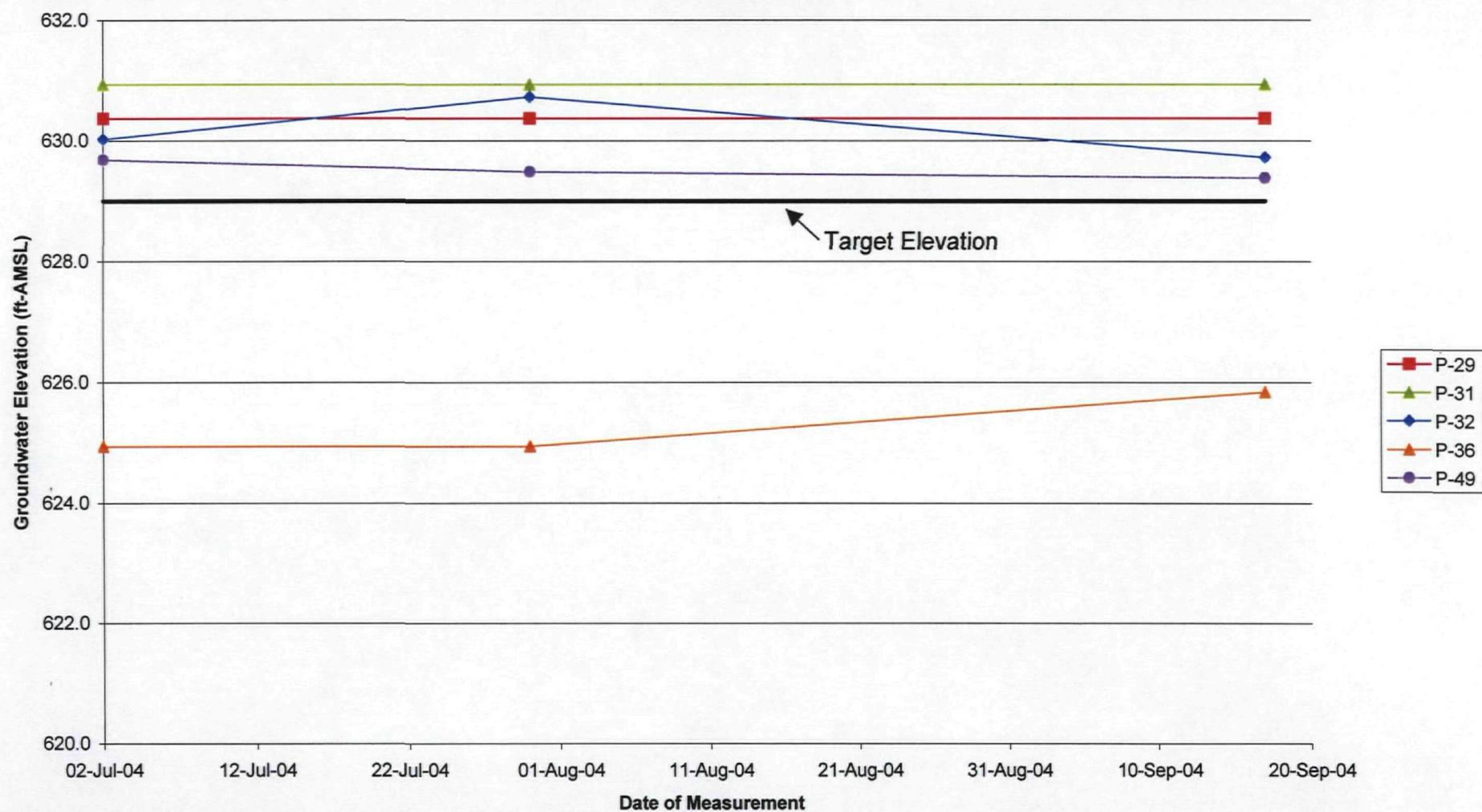


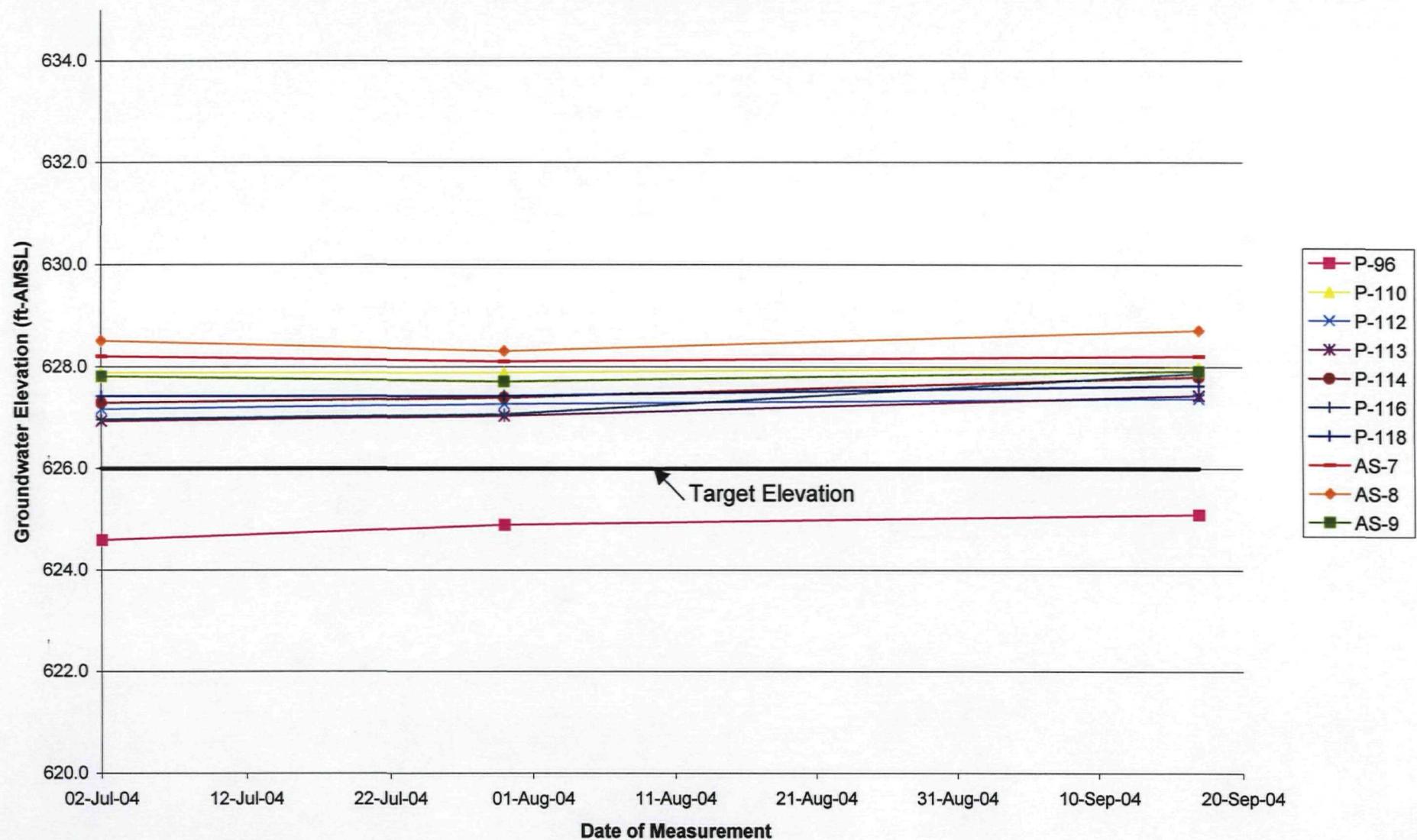
Figure 6.3
Water Level Trends Inside the Barrier Wall (Still Bottoms Pond Area)
ACS NPL Site
Griffith, Indiana



Note:

Hollow Points represent dry piezometers (data used for graphing purposes only).
The bottom elevation of the piezometers may vary due to silting or removal of silt.

Figure 6.4
Water Level Trends Inside the Barrier Wall (Off-Site Area)
ACS NPL Site
Griffith, Indiana



Appendix A



APPENDIX A

EFFLUENT ANALYTICAL DATA

**July 8, 2004 Compliance Sample
Laboratory Results**

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8260B

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3628

Matrix: (soil/water) WATER

Lab Sample ID: 362801

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 362801RB62

Level: (low/med) LOW

Date Received: 07/09/04

Moisture: not dec.

Date Analyzed: 07/15/04

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
74-87-3	Chloromethane	0.50	U	UJ
75-01-4	Vinyl Chloride	0.50	U	↓
74-83-9	Bromomethane	0.21	J	J
75-00-3	Chloroethane	0.50	U	UJ
75-35-4	1,1-Dichloroethene	0.50	U	↓
75-15-0	Carbon disulfide	0.50	U	↓
67-64-1	Acetone	2.6		J
75-09-2	Methylene Chloride	0.69		J
156-60-5	trans-1,2-Dichloroethene	0.50	U	UJ
75-34-3	1,1-Dichloroethane	0.50	U	UJ
156-59-2	cis-1,2-Dichloroethene	0.27	J	J
78-93-3	2-butanone	2.5	U	UJ
67-66-3	Chloroform	0.50	U	
71-55-6	1,1,1-Trichloroethane	0.50	U	
56-23-5	Carbon Tetrachloride	0.50	U	
71-43-2	Benzene	0.50	U	
107-06-2	1,2-Dichloroethane	0.50	U	↓
79-01-6	Trichloroethene	0.14	JB	UJ
78-87-5	1,2-Dichloropropane	0.50	U	UJ
75-27-4	Bromodichloromethane	0.50	U	
10061-01-5	cis-1,3-Dichloropropene	0.50	U	
108-10-1	4-Methyl-2-pentanone	2.5	U	↓
108-88-3	Toluene	0.40	J	J
10061-02-6	trans-1,3-Dichloropropene	0.50	U	UJ
79-00-5	1,1,2-Trichloroethane	0.50	U	
127-18-4	Tetrachloroethene	0.50	U	
591-78-6	2-hexanone	2.5	U	
124-48-1	Dibromochloromethane	0.50	U	
108-90-7	Chlorobenzene	0.50	U	
100-41-4	Ethylbenzene	0.50	U	
108-38-3	m,p-Xylene	1.0	U	
95-47-6	o-Xylene	0.50	U	
100-42-5	Styrene	0.50	U	↓

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8260B

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.: SDG No.: 3628

Matrix: (soil/water) WATER

Lab Sample ID: 362801

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 362801RB62

Level: (low/med) LOW

Date Received: 07/09/04

Moisture: not dec.

Date Analyzed: 07/15/04

GC Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: (uL)

Soil Aliquot Volume: (uL)

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

75-25-2-----Bromoform	0.50	U	NJ
79-34-5-----1,1,2,2-Tetrachloroethane	0.50	U	
541-73-1-----1,3-Dichlorobenzene	0.50	U	
106-46-7-----1,4-Dichlorobenzene	0.50	U	
95-50-1-----1,2-Dichlorobenzene	0.50	U	
120-82-1-----1,2,4-Trichlorobenzene	0.50	U	
540-59-0-----1,2-Dichloroethene (total)	0.27	J	X
1330-20-7-----Xylene (total)	0.50	U	UJ

FORM I VOA

7/14/04

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3628

Matrix: (soil/water) WATER

Lab Sample ID: 362801

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 362801A66

Level: (low/med) LOW

Date Received: 07/09/04

% Moisture: _____ decanted: (Y/N) _____

Date Extracted: 07/10/04

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/12/04

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

111-44-4-----Bis(2-chloroethyl)ether	9.6	U
106-44-5-----4-Methylphenol	10	U
78-59-1-----Isophorone	10	U
117-81-7-----bis(2-ethylhexyl)Phthalate	6.0	U

FORM I SV

8270C

FORM 1
SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8270C-SIM

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3628

Matrix: (soil/water) WATER

Lab Sample ID: 362801

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: 362801A60

Level: (low/med) LOW

Date Received: 07/09/04

Moisture: _____ decanted: (Y/N) _____

Date Extracted: 07/10/04

Concentrated Extract Volume: 1000 (uL)

Date Analyzed: 07/19/04

Injection Volume: 1.0 (uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N pH: _____

CAS NO.

COMPOUND

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L

Q

87-86-5-----Pentachlorophenol _____

1.00

U

FORM I SV

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

Lab Name: COMPUCHEM

Contract: 8082

EFFLUENT

Lab Code: COMPU Case No.:

SAS No.: SDG No.: 3628

Matrix: (soil/water) WATER

Lab Sample ID: 362801

Sample wt/vol: 1000 (g/mL) ML

Lab File ID: _____

% Moisture: _____ decanted: (Y/N) _____

Date Received: 07/09/04

Extraction: (SepF/Cont/Sonc) SEPF

Date Extracted: 07/15/04

Concentrated Extract Volume: 2500(uL)

Date Analyzed: 07/15/04

Injection Volume: 1.0(uL)

Dilution Factor: 1.0

GPC Cleanup: (Y/N) N PH: 7.0

Sulfur Cleanup: (Y/N) N

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
12674-11-2-----	Aroclor-1016		0.47	U
11104-28-2-----	Aroclor-1221		0.63	U
11141-16-5-----	Aroclor-1232		0.47	U
53469-21-9-----	Aroclor-1242		0.31	U
12672-29-6-----	Aroclor-1248		0.31	U
11097-69-1-----	Aroclor-1254		0.31	U
11096-82-5-----	Aroclor-1260		0.47	U

FORM I PEST

SW846 METALS

-1-

INORGANIC ANALYSES DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM

Contract: _____

Lab Code: LIBRTY

Case No.: _____

SAS No.: _____

SDG No.: 3628Matrix (soil/water): WATERLab Sample ID: 362801Level (low/med): LOWDate Received: 7/9/04% Solids: 0.0Concentration Units (ug/L or mg/kg dry weight): UG/L

CAS No.	Analyte	Concentration	C	Q	M
7440-38-2	Arsenic	3.2	B		P
7440-41-7	Beryllium	0.10	U		P
7440-43-9	Cadmium	0.26	B	UB	P
7439-97-6	Mercury	0.64	U	UJ	CV
7439-96-5	Manganese	7.9	B	UB	P
7782-49-2	Selenium	2.4	U		P
7440-28-0	Thallium	2.8	U		P
7440-66-6	Zinc	7.6	B		P

*8/24/04*Color Before: COLORLESS Clarity Before: CLEAR Texture: _____Color After: COLORLESS Clarity After: CLEAR Artifacts: _____Comments: _____

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM | Contract: ACS 7010311

Contract: ACS 7010311

Lab Code: CompuChe Case No.: 3628 NRAS No.: SDG No.: 3628

Matrix: (soil/water) WATER Lab Sample ID: 362801

Level: (low/med) LOW **Date Received:** 07/09/2004

* Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): mg/L

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Clarity Before: _____ **Texture:** _____

Texture:

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

Clarity After: _____ Artifacts: _____

Artifacts:

Comments: _____

FORM IA-IN

ILM05.2

18-ml of

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract: ACS 7010311

Contract: ACS 7010311

Lab Code: CompuChe Case No.: 3628 NRAS No.: _____ SDG No.: 3628

Matrix: (soil/water) WATER Lab Sample ID: 362801

Level: (low/med) LOW Date Received: 07/09/2004

* Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): PH UNITS

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Clarity Before: _____ Texture: _____

Texture: _____

Color After: _____ **Clarity After:** _____ **Artifacts:** _____

Clarity After: _____ Artifacts: _____

Artifacts: _____

Comments:

FORM IA-IN

ILM05.2

**August 12, 2004 Compliance Sample
Laboratory Results**

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

ab Name: COMPUCHEM Method: 8260B

ab Code: LIBRTY Case No.: SAS No.: SDG No.: 3947

Matrix: (soil/water) WATER Lab Sample ID: 394701

ample wt/vol: 25 (g/ml) ML Lab File ID: 394701A61

level: (low/med) LOW Date Received: 08/13/04

Moisture: not dec. Date Analyzed: 08/22/04

Column: ZB-624 ID: 0.32 (mm) Dilution Factor: 1.0

Extract Volume: (uL) Soil Aliquot Volume: (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/L	Q
74-87-3-----	Chloromethane	0.13	JB 0.5 uB J
75-01-4-----	Vinyl Chloride	0.50	U
74-83-9-----	Bromomethane	0.50	U UJ
75-00-3-----	Chloroethane	0.50	U
75-35-4-----	1,1-Dichloroethene	0.50	U
75-15-0-----	Carbon disulfide	0.50	U
67-64-1-----	Acetone	1.3	JB uB J
75-09-2-----	Methylene Chloride	0.50	U
156-60-5-----	trans-1,2-Dichloroethene	0.50	U
75-34-3-----	1,1-Dichloroethane	0.50	U
156-59-2-----	cis-1,2-Dichloroethene	0.50	U
78-93-3-----	2-butanone	2.5	U
67-66-3-----	Chloroform	0.50	U
71-55-6-----	1,1,1-Trichloroethane	0.50	U
56-23-5-----	Carbon Tetrachloride	0.50	U
71-43-2-----	Benzene	0.40	J J
107-06-2-----	1,2-Dichloroethane	0.50	U
79-01-6-----	Trichloroethene	0.50	U
78-87-5-----	1,2-Dichloropropane	0.50	U
75-27-4-----	Bromodichloromethane	0.50	U
10061-01-5-----	cis-1,3-Dichloropropene	0.50	U
108-10-1-----	4-Methyl-2-pentanone	2.5	U
108-88-3-----	Toluene	13	J
10061-02-6-----	trans-1,3-Dichloropropene	0.50	U
79-00-5-----	1,1,2-Trichloroethane	0.50	U
127-18-4-----	Tetrachloroethene	0.50	U
591-78-6-----	2-hexanone	2.5	U
124-48-1-----	Dibromochloromethane	0.50	U
108-90-7-----	Chlorobenzene	0.50	U
100-41-4-----	Ethylbenzene	1.7	J
108-38-3-----	m,p-Xylene	8.0	1
95-47-6-----	o-Xylene	3.8	↓
100-42-5-----	Styrene	0.50	U

Kalzloy

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

EFFLUENT

ab Name: COMPUCHEM

Method: 8260B

a Code: LIBRTY Case No.:

SAS No.:

SDG No.: 3947

atrix: (soil/water) WATER

Lab Sample ID: 394701

ample wt/vol: 25 (g/ml) ML

Lab File ID: 394701A61

level: (low/med) LOW

Date Received: 08/13/04

Moisture: not dec.

Date Analyzed: 08/22/04

Column: ZB-624 ID: 0.32 (mm)

Dilution Factor: 1.0

oil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CONCENTRATION UNITS:
(ug/L or ug/Kg) UG/L Q

CAS NO.	COMPOUND	UG/L	Q
75-25-2-----	Bromoform	0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane	0.50	U
541-73-1-----	1,3-Dichlorobenzene	0.50	U
106-46-7-----	1,4-Dichlorobenzene	0.50	U
95-50-1-----	1,2-Dichlorobenzene	0.50	U
120-82-1-----	1,2,4-Trichlorobenzene	0.10	JB 0.5UBJ
540-59-0-----	1,2-Dichloroethene (total)	0.50	U
1330-20-7-----	Xylene (total)	14	J

USEPA - CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract: ACS 7010311

Contract: ACS 7010311

Lab Code: CompuChe Case No.: 3947 NRAS No.: SDG No.: 3947

Matrix: (soil/water) WATER Lab Sample ID: 394701

Level: (low/med) LOW Date Received: 08/13/2004

% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): PH UNITS

Color Before:

Clarity Before: _____

Texture: _____

Color After:

Clarity After: _____

Artifacts: _____

Comments:

Digitized by srujanika@gmail.com

FORM IA-IN

ILM05.2

1

**September 7, 2004 Compliance Sample
Laboratory Results**

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8260B

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4210

Matrix: (soil/water) WATER

Lab Sample ID: 421001

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 421001B61

Level: (low/med) LOW

Date Received: 09/08/04

% Moisture: not dec.

Date Analyzed: 09/16/04

Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL)

Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
74-87-3-----	Chloromethane		0.50	U
75-01-4-----	Vinyl Chloride		0.50	U
74-83-9-----	Bromomethane		0.18	J
75-00-3-----	Chloroethane		0.33	J
75-35-4-----	1,1-Dichloroethene		0.50	U
75-15-0-----	Carbon disulfide		0.50	U
67-64-1-----	Acetone		2.5	
75-09-2-----	Methylene Chloride		3.3	
156-60-5-----	trans-1,2-Dichloroethene		0.50	U
75-34-3-----	1,1-Dichloroethane		0.50	U
156-59-2-----	cis-1,2-Dichloroethene		0.50	U
78-93-3-----	2-butanone		2.5	U
67-66-3-----	Chloroform		0.50	U
71-55-6-----	1,1,1-Trichloroethane		0.50	U
56-23-5-----	Carbon Tetrachloride		0.50	U
71-43-2-----	Benzene		0.50	U
107-06-2-----	1,2-Dichloroethane		0.50	U
79-01-6-----	Trichloroethene		0.50	U
78-87-5-----	1,2-Dichloropropane		0.50	U
75-27-4-----	Bromodichloromethane		0.50	U
10061-01-5-----	cis-1,3-Dichloropropene		0.50	U
108-10-1-----	4-Methyl-2-pentanone		2.5	U
108-88-3-----	Toluene		0.50	U
10061-02-6-----	trans-1,3-Dichloropropene		0.50	U
79-00-5-----	1,1,2-Trichloroethane		0.50	U
127-18-4-----	Tetrachloroethene		0.50	U
591-78-6-----	2-hexanone		2.5	U
124-48-1-----	Dibromochloromethane		0.50	U
108-90-7-----	Chlorobenzene		0.50	U
100-41-4-----	Ethylbenzene		0.50	U
108-38-3-----	m,p-Xylene		1.0	U
95-47-6-----	o-Xylene		0.50	U
100-42-5-----	Styrene		0.50	U

FORM I VOA

FORM 1
VOLATILE ORGANICS ANALYSIS DATA SHEET

CLIENT SAMPLE NO.

Lab Name: COMPUCHEM

Method: 8260B

EFFLUENT

Lab Code: LIBRTY Case No.:

SAS No.:

SDG No.: 4210

Matrix: (soil/water) WATER

Lab Sample ID: 421001

Sample wt/vol: 25 (g/ml) ML

Lab File ID: 421001B61

Level: (low/med) LOW

Date Received: 09/08/04

Moisture: not dec.

Date Analyzed: 09/16/04

Column: RTX-VMS ID: 0.18 (mm)

Dilution Factor: 1.0

Soil Extract Volume: _____ (uL) Soil Aliquot Volume: _____ (uL)

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg)	UG/L	Q
75-25-2-----	Bromoform		0.50	U
79-34-5-----	1,1,2,2-Tetrachloroethane		0.50	U
541-73-1-----	1,3-Dichlorobenzene		0.50	U
106-46-7-----	1,4-Dichlorobenzene		0.50	U
95-50-1-----	1,2-Dichlorobenzene		0.50	U
120-82-1-----	1,2,4-Trichlorobenzene		0.50	U
540-59-0-----	1,2-Dichloroethene (total)		0.50	U
1330-20-7-----	Xylene (total)		0.50	U

FORM I VOA

for volnty

USEPA -- CLP

1A-IN
INORGANIC ANALYSIS DATA SHEET

EPA SAMPLE NO.

EFFLUENT

Lab Name: COMPUCHEM Contract: ACS 7010311
Lab Code: CompuChe Case No.: 4210 NRAS No.: _____ SDG No.: 4210
Matrix: (soil/water) WATER Lab Sample ID: 421001
Level: (low/med) LOW Date Received: 09/08/2004
% Solids: 0.0

Concentration Units (ug/L or mg/kg dry weight): PH UNITS

Color Before: _____ **Clarity Before:** _____ **Texture:** _____

Color After: **Clarity After:** **Artifacts:**

Comments:

9/14/04

APPENDIX B

ANNUAL SEDIMENT SAMPLE ANALYTICAL DATA

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSSS92704-01

Lab Name:	COMPUCHEM	Contract:	8082
Lab Code:	LIBRTY	Case No.:	SAS No.:
Matrix:	(soil/water) SOIL	Lab Sample ID: 450101	
Sample wt/vol:	30.0 (g/mL) G	Lab File ID: _____	
% Moisture:	50	decanted:	(Y/N) N
Extraction:	(SepF/Cont/Sonc) SONC	Date Received: 09/28/04	
Concentrated Extract Volume:	5000 (uL)	Date Extracted: 10/04/04	
Injection Volume:	2.0 (uL)	Date Analyzed: 10/07/04	
Injection Volume:	2.0 (uL)	Dilution Factor: 1.0	
GPC Cleanup:	(Y/N) N	pH:	_____
		Sulfur Cleanup: (Y/N) Y	

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
12674-11-2-----	Aroclor-1016	62	U
11104-28-2-----	Aroclor-1221	84	U
11141-16-5-----	Aroclor-1232	62	U
53469-21-9-----	Aroclor-1242	42	U
12672-29-6-----	Aroclor-1248	42	U
11097-69-1-----	Aroclor-1254	42	U
11096-82-5-----	Aroclor-1260	62	U

x/1504

1D
GC EXTRACTABLE ORGANICS ANALYSIS DATA SHEET

EPA SAMPLE NO.

ACSSS92704-02

Lab Name:	COMPUCHEM	Contract:	8082
Lab Code:	LIBRTY	Case No.:	SAS No.: SDG No.: 4501
Matrix:	(soil/water) SOIL	Lab Sample ID: 450102	
Sample wt/vol:	30.0 (g/mL) G	Lab File ID: _____	
% Moisture:	60	decanted: (Y/N)	N Date Received: 09/28/04
Extraction:	(SepF/Cont/Sonc) SONC	Date Extracted: 10/04/04	
Concentrated Extract Volume:	5000 (uL)	Date Analyzed: 10/07/04	
Injection Volume:	2.0 (uL)	Dilution Factor: 1.0	
GPC Cleanup:	(Y/N) N	pH:	Sulfur Cleanup: (Y/N) Y

CAS NO.	COMPOUND	CONCENTRATION UNITS: (ug/L or ug/Kg) UG/KG Q	
12674-11-2-----	Aroclor-1016	78	U
11104-28-2-----	Aroclor-1221	110	U
11141-16-5-----	Aroclor-1232	78	U
53469-21-9-----	Aroclor-1242	53	U
12672-29-6-----	Aroclor-1248	53	U
11097-69-1-----	Aroclor-1254	53	U
11096-82-5-----	Aroclor-1260	78	U

RE 121504

Appendix C



APPENDIX C

CATALYTIC OXIDIZER OFF-GAS ANALYTICAL DATA

September 16, 2004 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS CATOXEFF SEP16

ID#: 0409335-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	27	260	71	690
Bromomethane	27	Not Detected	110	Not Detected
Chloroethane	27	150	73	400
1,1-Dichloroethene	27	260	110	1000
Methylene Chloride	27	210 J	96	730
1,1-Dichloroethane	27	110	110	470
cis-1,2-Dichloroethene	27	3200	110	13000
Chloroform	27	30	130	150
1,1,1-Trichloroethane	27	95	150	530
Carbon Tetrachloride	27	Not Detected	170	Not Detected
Benzene	27	1400	88	4500
1,2-Dichloroethane	27	36	110	150
Trichloroethene	27	1000	150	5600
1,2-Dichloropropane	27	Not Detected	130	Not Detected
cis-1,3-Dichloropropene	27	Not Detected	120	Not Detected
Toluene	27	1000	100	3900
trans-1,3-Dichloropropene	27	Not Detected	120	Not Detected
1,1,2-Trichloroethane	27	Not Detected	150	Not Detected
Tetrachloroethene	27	5200	190	36000
Chlorobenzene	27	150	130	690
Ethyl Benzene	27	110	120	490
m,p-Xylene	27	440	120	2000
o-Xylene	27	180	120	780
Styrene	27	44	120	190
1,1,2,2-Tetrachloroethane	27	4.9 J 15	190	34 J
Bromodichloromethane	27	Not Detected	180	Not Detected
Dibromochloromethane	27	Not Detected	240	Not Detected
Chloromethane	110	200	230	430
Acetone	110	260	260	630
Carbon Disulfide	110	Not Detected	340	Not Detected
trans-1,2-Dichloroethene	110	570	440	2300
2-Butanone (Methyl Ethyl Ketone)	110	120	330	360
4-Methyl-2-pentanone	110	95 J 15	450	400 J
2-Hexanone	110	Not Detected	450	Not Detected
Bromoform	110	Not Detected	1100	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS CATOXEFF SEP16

ID#: 0409335-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409335-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	2.0	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	0.50	Not Detected	1.8	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.5	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.2	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.8	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.2	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.5	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.3	Not Detected
Chloromethane	2.0	Not Detected	4.2	Not Detected
Acetone	2.0	Not Detected	4.8	Not Detected
Carbon Disulfide	2.0	Not Detected	6.3	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	8.0	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	6.0	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.3	Not Detected
2-Hexanone	2.0	Not Detected	8.3	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected

Container Type: NA - Not Applicable

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409335-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0409335-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	%Recovery
Vinyl Chloride	103
Bromomethane	101
Chloroethane	102
1,1-Dichloroethene	99
Methylene Chloride	75
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	94
Chloroform	103
1,1,1-Trichloroethane	101
Carbon Tetrachloride	103
Benzene	102
1,2-Dichloroethane	101
Trichloroethene	102
1,2-Dichloropropane	101
cis-1,3-Dichloropropene	104
Toluene	101
trans-1,3-Dichloropropene	102
1,1,2-Trichloroethane	100
Tetrachloroethene	106
Chlorobenzene	100
Ethyl Benzene	101
m,p-Xylene	108
o-Xylene	104
Styrene	114
1,1,2,2-Tetrachloroethane	101
Bromodichloromethane	104
Dibromochloromethane	113
Chloromethane	97
Acetone	92
Carbon Disulfide	96
trans-1,2-Dichloroethene	95
2-Butanone (Methyl Ethyl Ketone)	102
4-Methyl-2-pentanone	112
2-Hexanone	112
Bromoform	116

Container Type: NA - Not Applicable

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11/2/04

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0409335-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN



Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	102	70-130

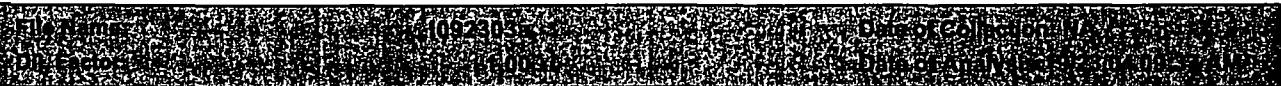
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11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409335-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN



Compound	%Recovery
Vinyl Chloride	97
Bromomethane	99
Chloroethane	101
1,1-Dichloroethene	96
Methylene Chloride	68 Q
1,1-Dichloroethane	100
cis-1,2-Dichloroethene	96
Chloroform	104
1,1,1-Trichloroethane	102
Carbon Tetrachloride	104
Benzene	108
1,2-Dichloroethane	107
Trichloroethene	108
1,2-Dichloropropane	114
cis-1,3-Dichloropropene	104
Toluene	105
trans-1,3-Dichloropropene	103
1,1,2-Trichloroethane	106
Tetrachloroethene	110
Chlorobenzene	102
Ethyl Benzene	103
m,p-Xylene	113
o-Xylene	99
Styrene	110
1,1,2,2-Tetrachloroethane	101
Bromodichloromethane	108
Dibromochloromethane	113
Chloromethane	98
Acetone	95
Carbon Disulfide	98
trans-1,2-Dichloroethene	98
2-Butanone (Methyl Ethyl Ketone)	126
4-Methyl-2-pentanone	117
2-Hexanone	118
Bromoform	115

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409335-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Method limits: 70-130

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0409335-04AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	%Recovery
Vinyl Chloride	101
Bromomethane	104
Chloroethane	103
1,1-Dichloroethene	98
Methylene Chloride	70
1,1-Dichloroethane	101
cis-1,2-Dichloroethene	97
Chloroform	105
1,1,1-Trichloroethane	103
Carbon Tetrachloride	106
Benzene	108
1,2-Dichloroethane	107
Trichloroethene	108
1,2-Dichloropropane	114
cis-1,3-Dichloropropene	103
Toluene	104
trans-1,3-Dichloropropene	101
1,1,2-Trichloroethane	104
Tetrachloroethene	108
Chlorobenzene	101
Ethyl Benzene	102
m,p-Xylene	113
o-Xylene	100
Styrene	108
1,1,2,2-Tetrachloroethane	100
Bromodichloromethane	107
Dibromochloromethane	112
Chloromethane	102
Acetone	96
Carbon Disulfide	99
trans-1,2-Dichloroethene	100
2-Butanone (Methyl Ethyl Ketone)	126
4-Methyl-2-pentanone	117
2-Hexanone	117
Bromoform	116

Container Type: NA - Not Applicable

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0409335-04AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	104	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS CATOXEFF SEP16

ID#: 0409326-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Method detection limits (MDL) were determined by the following equation:

$$MDL = \frac{R_{\text{pt}}}{3} \times \frac{E}{F}$$

 Where:
 R_{pt} = Reportable limit (ug)
 E = Extraction efficiency
 F = Detection factor (10 for this method)

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	0.78 J 15
1,4-Dichlorobenzene	1.0	0.65 J 15
1,2-Dichlorobenzene	1.0	2.6
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	1.1
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	0.30 J 15
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS CATOXEFF SEP16

ID#: 0409326-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.3 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	72	50-150
Phenol-d5	76	50-150
Nitrobenzene-d5	76	50-150
2,4,6-Tribromophenol	59	50-150
Fluorene-d10	68	60-120
Pyrene-d10	82	60-120

CBS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409326-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.64 J /5
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409326-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	50-150
Phenol-d5	71	50-150
Nitrobenzene-d5	71	50-150
2,4,6-Tribromophenol	62	50-150
Fluorene-d10	68	60-120
Pyrene-d10	87	60-120

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409326-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	Sample ID:	Date Analyzed:	Date Entered:
TO-13A-0409326-03A.DAT	LCS	11/12/04	11/12/04

Compound	%Recovery
Phenol	71
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	76
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	76
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
N-Nitroso-di-n-propylamine	77
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	77
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	76
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Chloronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	79
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	67
2,4-Dinitrotoluene	78
Dibenzofuran	Not Spiked
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked

CTS
11/12/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409326-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN



Compound	%Recovery
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	65
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	84
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

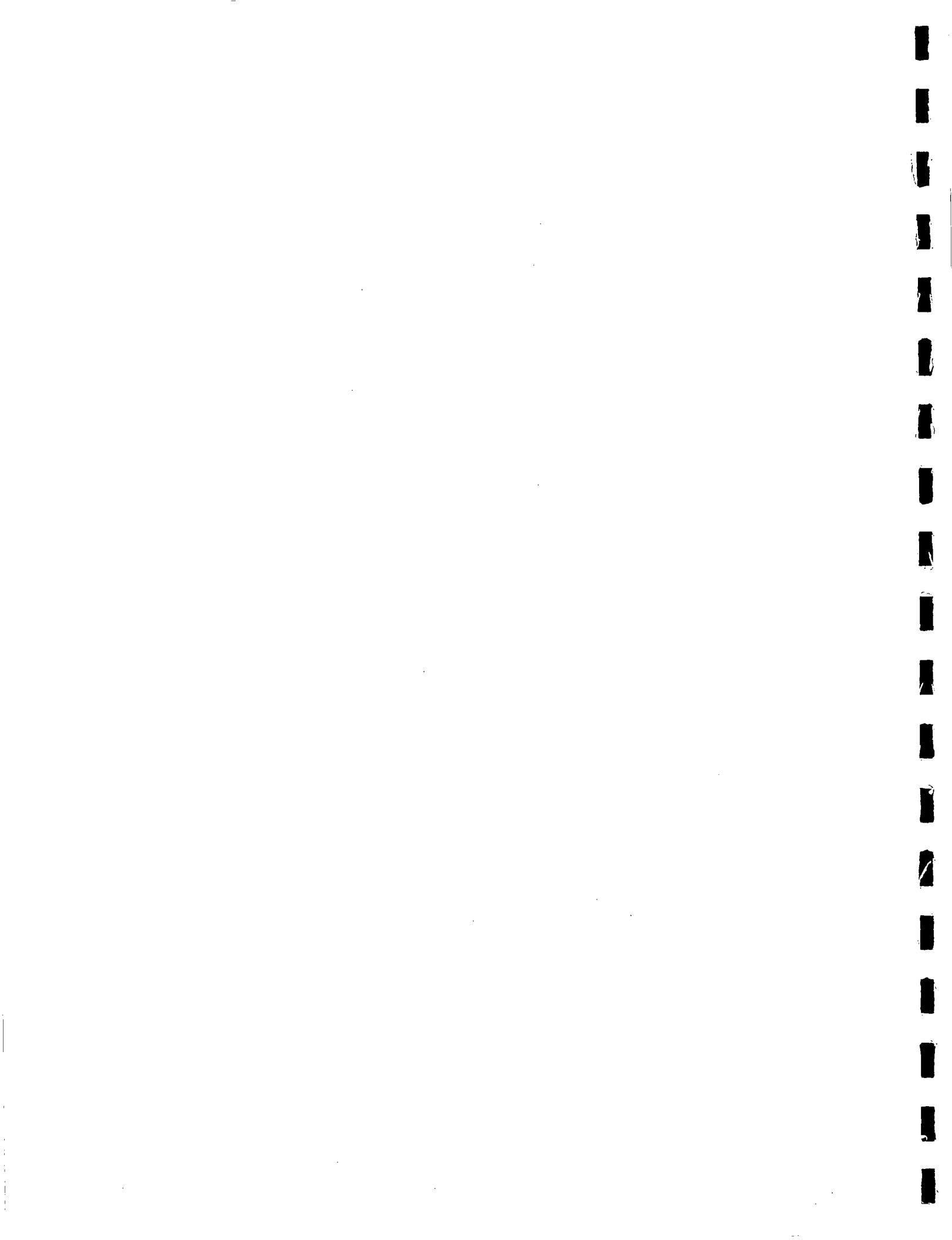
Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	79	50-150
Phenol-d5	83	50-150
Nitrobenzene-d5	86	50-150
2,4,6-Tribromophenol	78	50-150
Fluorene-d10	81	60-120
Pyrene-d10	87	60-120

OPS
11/2/04

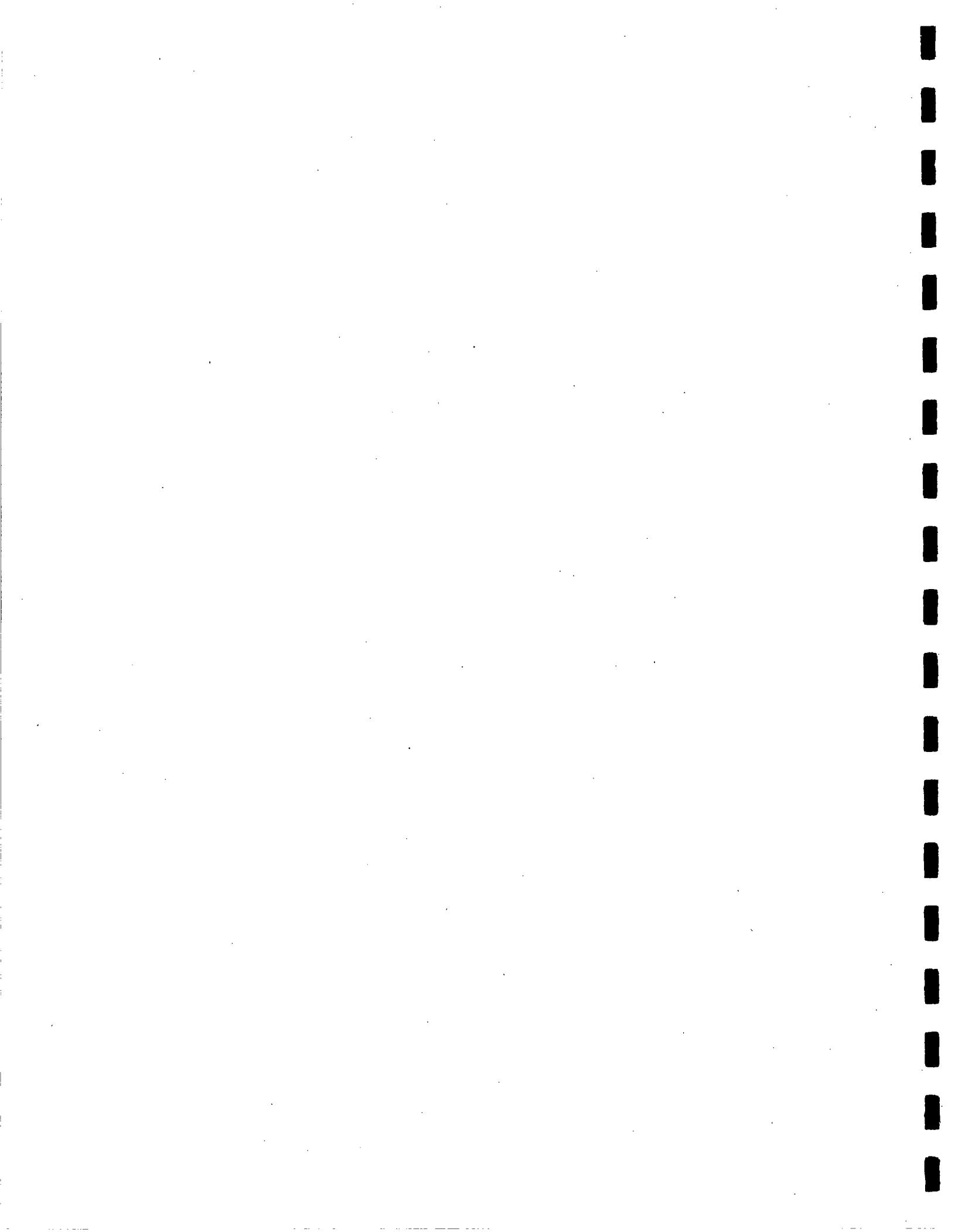
Appendix D



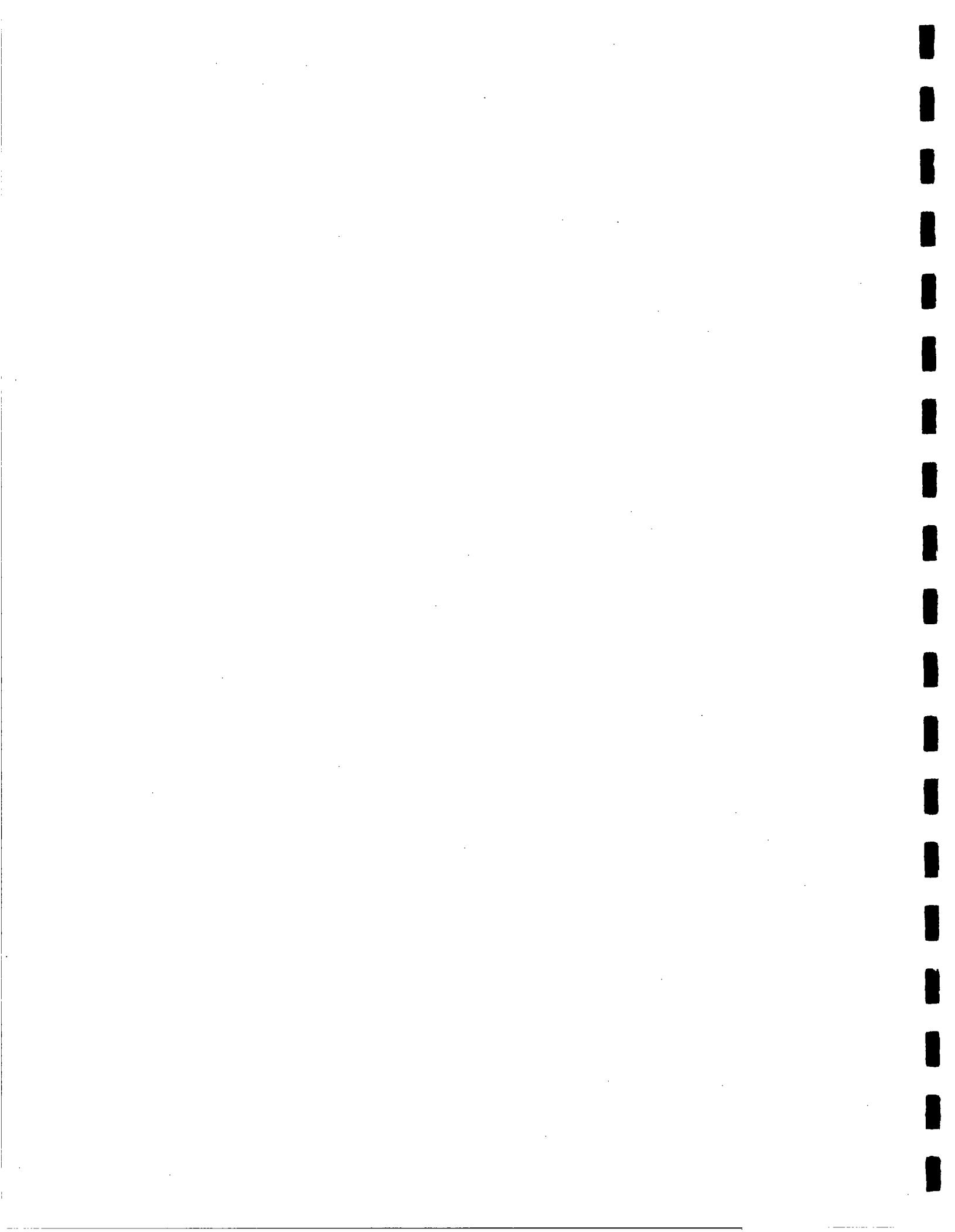


APPENDIX D

THERMAL OXIDIZER OFF-GAS ANALYTICAL DATA



July 23, 2004 Off-Gas Sample Laboratory Results



7/23/04 10-14

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23

ID#: 0407455A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b073007	Date of Collection:	7/23/04
Dil Factor:	8000	Date of Analysis:	7/30/04 01:06 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	4000	1800 J 15	10000	4700 J
Bromomethane	4000	Not Detected	16000	Not Detected
Chloroethane	4000	Not Detected	11000	Not Detected
1,1-Dichloroethene	4000	Not Detected	16000	Not Detected
Methylene Chloride	4000	13000	14000	46000
1,1-Dichloroethane	4000	7100	16000	29000
cis-1,2-Dichloroethene	4000	80000	16000	320000
Chloroform	4000	4600	20000	23000
1,1,1-Trichloroethane	4000	94000	22000	520000
Carbon Tetrachloride	4000	Not Detected	26000	Not Detected
Benzene	4000	51000	13000	160000
1,2-Dichloroethane	4000	Not Detected	16000	Not Detected
Trichloroethene	4000	94000	22000	510000
1,2-Dichloropropane	4000	Not Detected	19000	Not Detected
cis-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
Toluene	4000	770000	15000	2900000
trans-1,3-Dichloropropene	4000	Not Detected	18000	Not Detected
1,1,2-Trichloroethane	4000	Not Detected	22000	Not Detected
Tetrachloroethene	4000	220000	28000	1500000
Chlorobenzene	4000	Not Detected	19000	Not Detected
Ethyl Benzene	4000	110000	18000	500000
m,p-Xylene	4000	450000	18000	2000000
o-Xylene	4000	170000	18000	740000
Styrene	4000	Not Detected	17000	Not Detected
1,1,2,2-Tetrachloroethane	4000	Not Detected	28000	Not Detected
Bromodichloromethane	4000	Not Detected	27000	Not Detected
Dibromochloromethane	4000	Not Detected	35000	Not Detected
Chloromethane	16000	Not Detected	34000	Not Detected
Acetone	16000	Not Detected	39000	Not Detected
Carbon Disulfide	16000	940 J 15	51000	3000 J
trans-1,2-Dichloroethene	16000	Not Detected	64000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16000	Not Detected	48000	Not Detected
4-Methyl-2-pentanone	16000	Not Detected	67000	Not Detected
2-Hexanone	16000	Not Detected	67000	Not Detected
Bromoform	16000	Not Detected	170000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23

ID#: 0407455A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	b073007	Date of Collection:	7/23/04
Diff Factor:	8000	Date of Analysis:	7/30/04 01:06 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23

ID#: 0407455A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

FileName:	1073008	Date of Collection:	7/23/04
Dil Factor:	2680	Date of Analysis:	7/30/04 01:54 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1300	350 J 15	3500	910 J
Bromomethane	1300	Not Detected	5300	Not Detected
Chloroethane	1300	Not Detected	3600	Not Detected
1,1-Dichloroethene	1300	Not Detected	5400	Not Detected
Methylene Chloride	1300	68000	4700	240000
1,1-Dichloroethane	1300	11000	5500	44000
cis-1,2-Dichloroethene	1300	9100	5400	36000
Chloroform	1300	5000	6600	24000
1,1,1-Trichloroethane	1300	88000	7400	480000
Carbon Tetrachloride	1300	Not Detected	8600	Not Detected
Benzene	1300	54000	4400	180000
1,2-Dichloroethane	1300	2800	5500	12000
Trichloroethene	1300	55000	7300	300000
1,2-Dichloropropane	1300	Not Detected	6300	Not Detected
cis-1,3-Dichloropropene	1300	Not Detected	6200	Not Detected
Toluene	1300	340000	5100	1300000
trans-1,3-Dichloropropene	1300	Not Detected	6200	Not Detected
1,1,2-Trichloroethane	1300	Not Detected	7400	Not Detected
Tetrachloroethene	1300	61000	9200	420000
Chlorobenzene	1300	Not Detected	6300	Not Detected
Ethyl Benzene	1300	34000	5900	150000
m,p-Xylene	1300	130000	5900	590000
o-Xylene	1300	47000	5900	210000
Styrene	1300	Not Detected	5800	Not Detected
1,1,2,2-Tetrachloroethane	1300	Not Detected	9400	Not Detected
Bromodichloromethane	1300	Not Detected	9100	Not Detected
Dibromochloromethane	1300	Not Detected	12000	Not Detected
Chloromethane	5400	Not Detected	11000	Not Detected
Acetone	5400	48000	13000	120000
Carbon Disulfide	5400	1800 J 15	17000	5800 J
trans-1,2-Dichloroethene	5400	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5400	37000	16000	110000
4-Methyl-2-pentanone	5400	19000	22000	80000
2-Hexanone	5400	780 J 15	22000	3300 J
Bromoform	5400	Not Detected	56000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	104	70-130

CRS

8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23

ID#: 0407455A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0407455A-02A	Date of Collection:	7/23/04
Dil Factor:	2680	Date of Analysis:	7/30/04 01:51 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

CP5
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 JUL23

ID#: 0407455A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	5073006	Date of Collection	7/23/23	
Dil Factor	58.00	Date of Analysis	7/30/23 02:01PM	
Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (μ G/m3)	Amount (μ G/m3)
Vinyl Chloride	34	98	88	250
Bromomethane	34	Not Detected	130	Not Detected
Chloroethane	34	30 J 15	91	81 J
1,1-Dichloroethene	34	470	140	1900
Methylene Chloride	34	650	120	2300
1,1-Dichloroethane	34	140	140	570
cis-1,2-Dichloroethene	34	960	140	3800
Chloroform	34	120	170	600
1,1,1-Trichloroethane	34	1100	190	6000
Carbon Tetrachloride	34	14 J 15	220	92 J
Benzene	34	1300	110	4200
1,2-Dichloroethane	34	Not Detected	140	Not Detected
Trichloroethene	34	1400	180	7900
1,2-Dichloropropane	34	21 J 15	160	100 J
cis-1,3-Dichloropropene	34	Not Detected	160	Not Detected
Toluene	34	9200	130	35000
trans-1,3-Dichloropropene	34	Not Detected	160	Not Detected
1,1,2-Trichloroethane	34	Not Detected	190	Not Detected
Tetrachloroethene	34	3100	230	22000
Chlorobenzene	34	28 J 15	160	130 J
Ethyl Benzene	34	1200	150	5500
m,p-Xylene	34	4900	150	22000
o-Xylene	34	1800	150	8000
Styrene	34	360	150	1500
1,1,2,2-Tetrachloroethane	34	Not Detected	240	Not Detected
Bromodichloromethane	34	Not Detected	230	Not Detected
Dibromochloromethane	34	5.5 J 15	290	47 J
Chloromethane	140	140	280	290
Acetone	140	480	330	1200
Carbon Disulfide	140	12 J 15	430	37 J
trans-1,2-Dichloroethene	140	94 J 15	550	380 J
2-Butanone (Methyl Ethyl Ketone)	140	290	410	860
4-Methyl-2-pentanone	140	120 J 15	570	490 J
2-Hexanone	140	Not Detected	570	Not Detected
Bromoform	140	Not Detected	1400	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130

AS
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 JUL23

ID#: 0407455A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	6073005	Date of Collection:	7/23/04
DIL Factor:	63.0	Date of Analysis:	7/30/04 12:01 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

CRS
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 JUL23

ID#: 0407455A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0407455A-04A	Date of Collection:	7/23/2023
Dil Factor:	4530	Date of Analysis:	7/30/2023 02:34 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	2300	1600 J/5	5900	4200 J
Bromomethane	2300	Not Detected	8900	Not Detected
Chloroethane	2300	1700 J/5	6100	4500 J
1,1-Dichloroethene	2300	Not Detected	9100	Not Detected
Methylene Chloride	2300	30000	8000	110000
1,1-Dichloroethane	2300	7400	9300	30000
cis-1,2-Dichloroethene	2300	43000	9100	170000
Chloroform	2300	3700	11000	18000
1,1,1-Trichloroethane	2300	70000	12000	390000
Carbon Tetrachloride	2300	Not Detected	14000	Not Detected
Benzene	2300	42000	7400	140000
1,2-Dichloroethane	2300	Not Detected	9300	Not Detected
Trichloroethene	2300	59000	12000	320000
1,2-Dichloropropane	2300	1400 J/5	11000	6700 J
cis-1,3-Dichloropropene	2300	Not Detected	10000	Not Detected
Toluene	2300	410000	8700	1600000
trans-1,3-Dichloropropene	2300	Not Detected	10000	Not Detected
1,1,2-Trichloroethane	2300	Not Detected	12000	Not Detected
Tetrachloroethene	2300	100000	16000	730000
Chlorobenzene	2300	Not Detected	10000	Not Detected
Ethyl Benzene	2300	51000	10000	220000
m,p-Xylene	2300	200000	10000	900000
o-Xylene	2300	72000	10000	320000
Styrene	2300	Not Detected	9800	Not Detected
1,1,2,2-Tetrachloroethane	2300	Not Detected	16000	Not Detected
Bromodichloromethane	2300	Not Detected	15000	Not Detected
Dibromochloromethane	2300	Not Detected	20000	Not Detected
Chloromethane	9100	Not Detected	19000	Not Detected
Acetone	9100	24000	22000	57000
Carbon Disulfide	9100	4100 J/5	29000	13000 J
trans-1,2-Dichloroethene	9100	Not Detected	36000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9100	13000	27000	39000
4-Methyl-2-pentanone	9100	6600 J/5	38000	28000 J
2-Hexanone	9100	Not Detected	38000	Not Detected
Bromoform	9100	Not Detected	95000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	105	70-130

OPS
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 JUL23

ID#: 0407455A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Number	0407455A-04A	Date of Collection	7/23/04
Dil Factor	45.10	Date of Analysis	7/30/04 02:41 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	96	70-130

CDS
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 JUL23

ID#: 0407455A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

FileName	B073010	Date of Collection	7/23/04
Dil Factor	46.10	Date of Analysis	7/30/04 03:24 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	2300	1700 J /5	6000	4400 J
Bromomethane	2300	Not Detected	9100	Not Detected
Chloroethane	2300	Not Detected	6200	Not Detected
1,1-Dichloroethene	2300	Not Detected	9300	Not Detected
Methylene Chloride	2300	31000	8200	110000
1,1-Dichloroethane	2300	7400	9500	30000
cis-1,2-Dichloroethene	2300	44000	9300	180000
Chloroform	2300	3800	11000	19000
1,1,1-Trichloroethane	2300	72000	13000	400000
Carbon Tetrachloride	2300	Not Detected	15000	Not Detected
Benzene	2300	46000	7500	150000
1,2-Dichloroethane	2300	Not Detected	9500	Not Detected
Trichloroethene	2300	60000	13000	330000
1,2-Dichloropropane	2300	1300 J /5	11000	6000 J
cis-1,3-Dichloropropene	2300	Not Detected	11000	Not Detected
Toluene	2300	450000	8900	1700000
trans-1,3-Dichloropropene	2300	Not Detected	11000	Not Detected
1,1,2-Trichloroethane	2300	Not Detected	13000	Not Detected
Tetrachloroethene	2300	120000	16000	800000
Chlorobenzene	2300	Not Detected	11000	Not Detected
Ethyl Benzene	2300	58000	10000	260000
m,p-Xylene	2300	230000	10000	1000000
o-Xylene	2300	84000	10000	370000
Styrene	2300	Not Detected	10000	Not Detected
1,1,2,2-Tetrachloroethane	2300	Not Detected	16000	Not Detected
Bromodichloromethane	2300	Not Detected	16000	Not Detected
Dibromochloromethane	2300	Not Detected	20000	Not Detected
Chloromethane	9300	Not Detected	19000	Not Detected
Acetone	9300	21000	22000	51000
Carbon Disulfide	9300	2000 J /5	29000	6200 J
trans-1,2-Dichloroethene	9300	Not Detected	37000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	9300	13000	28000	40000
4-Methyl-2-pentanone	9300	7200 J /5	38000	30000 J
2-Hexanone	9300	Not Detected	38000	Not Detected
Bromoform	9300	Not Detected	97000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	102	70-130
Toluene-d8	105	70-130

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 JUL23

ID#: 0407455A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	D073010	Date of Collection:	7/23/04
Dil Factor:	4630	Date of Analysis:	7/30/04 03:24 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	97	70-130

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7/23/04 TO-13

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23

ID#: 0407455B-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072815	Date of Collection:	7/23/04
Dil Factor:	1.000	Date of Analysis:	7/26/04 04:30 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	120
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	88 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.2
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	32
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23

ID#: 0407455B-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072815	Date of Collection:	7/23/04
DIL Factor:	1.00	Date of Analysis:	7/23/04 04:30 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.58 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.61 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	26 Q	50-150
Phenol-d5	96	50-150
Nitrobenzene-d5	86	50-150
2,4,6-Tribromophenol	79	50-150
Fluorene-d10	80	60-120
Pyrene-d10	82	60-120

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23 Duplicate

ID#: 0407455B-01AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072816	Date of Collection:	7/23/04
DIL Factor:	1:00	Date of Analysis:	7/28/04 05:00 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	120
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	88 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.5
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	32
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS IN1 JUL23 Duplicate

ID#: 0407455B-01AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072816	Date of Collection:	7/23/04
Diff Factor:	1.00	Date of Analysis:	7/28/04 05:00 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthere	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.48 J /5
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.60 J /5
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	21 Q	50-150
Phenol-d5	95	50-150
Nitrobenzene-d5	98	50-150
2,4,6-Tribromophenol	76	50-150
Fluorene-d10	79	60-120
Pyrene-d10	82	60-120

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8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23

ID#: 0407455B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K080314	Date of Collection:	7/23/04
Dil Factor:	2.50	Date of Analysis:	8/3/04 07:24 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (μ g)	Amount (μ g)
Phenol	12	23
bis(2-Chloroethyl) Ether	2.5	Not Detected
2-Chlorophenol	12	Not Detected
1,3-Dichlorobenzene	2.5	Not Detected
1,4-Dichlorobenzene	2.5	8.1
1,2-Dichlorobenzene	2.5	65
2-Methylphenol (o-Cresol)	12	Not Detected
N-Nitroso-di-n-propylamine	2.5	Not Detected
4-Methylphenol/3-Methylphenol	12	8.3 J 15
Hexachloroethane	2.5	Not Detected
Nitrobenzene	2.5	Not Detected
Isophorone	2.5	19
2-Nitrophenol	12	Not Detected
2,4-Dimethylphenol	12	Not Detected
bis(2-Chloroethoxy) Methane	2.5	Not Detected
2,4-Dichlorophenol	12	Not Detected
1,2,4-Trichlorobenzene	2.5	1.6 J 15
Naphthalene	2.5	290 B
4-Chloroaniline	25	Not Detected
Hexachlorobutadiene	2.5	2.9
4-Chloro-3-methylphenol	12	Not Detected
2-Methylnaphthalene	2.5	11
Hexachlorocyclopentadiene	50	Not Detected
2,4,6-Trichlorophenol	12	Not Detected
2,4,5-Trichlorophenol	12	Not Detected
2-Chloronaphthalene	2.5	Not Detected
2-Nitroaniline	25	Not Detected
Dimethylphthalate	12	Not Detected
Acenaphthylene	2.5	Not Detected
2,6-Dinitrotoluene	12	Not Detected
3-Nitroaniline	25	Not Detected
Acenaphthene	2.5	Not Detected
2,4-Dinitrophenol	50	Not Detected
4-Nitrophenol	50	Not Detected
2,4-Dinitrotoluene	12	Not Detected
Dibenzofuran	2.5	Not Detected
Diethylphthalate	12	2.6 J
Fluorene	2.5	Not Detected
4-Chlorophenyl-phenyl Ether	2.5	Not Detected
4-Nitroaniline	25	Not Detected
4,6-Dinitro-2-methylphenol	25	Not Detected

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23

ID#: 0407455B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	K080311	Date of Collection	7/23/04
Dil. Factor	2.50	Date of Analysis	8/3/04 07:24 PM
		Date of Extraction	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	25	Not Detected
4-Bromophenyl-phenyl Ether	2.5	Not Detected
Hexachlorobenzene	2.5	Not Detected
Pentachlorophenol	50	Not Detected
Phenanthrene	2.5	Not Detected
Anthracene	2.5	Not Detected
di-n-Butylphthalate	12	Not Detected
Fluoranthene	2.5	Not Detected
Pyrene	2.5	Not Detected
Butylbenzylphthalate	12	Not Detected
3,3'-Dichlorobenzidine	50	Not Detected
Chrysene	2.5	Not Detected
Benzo(a)anthracene	2.5	Not Detected
bis(2-Ethylhexyl)phthalate	12	33
Di-n-Octylphthalate	12	Not Detected
Benzo(b)fluoranthene	2.5	Not Detected
Benzo(k)fluoranthene	2.5	Not Detected
Benzo(a)pyrene	2.5	Not Detected
Indeno(1,2,3-c,d)pyrene	2.5	Not Detected
Dibenz(a,h)anthracene	2.5	Not Detected
Benzo(g,h,i)perylene	2.5	Not Detected

J = Estimated value.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	64	50-150
Phenol-d5	90	50-150
Nitrobenzene-d5	82	50-150
2,4,6-Tribromophenol	60	50-150
Fluorene-d10	82	60-120
Pyrene-d10	88	60-120

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23 Duplicate

ID#: 0407455B-02AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	K072817	Date of Collection	7/23/04
Dil Factor	1.00	Date of Analysis	7/23/04 05:30 P.M.
		Date of Extraction	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	22
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	7.2
1,2-Dichlorobenzene	1.0	58
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	9.1
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	18
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	1.9 J 15
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.6
Naphthalene	1.0	240 E B 15
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.1
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	11
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	2.8 J
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS IN1 JUL23 Duplicate

ID#: 0407455B-02AA

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072817	Date of Collection:	7/23/04
Dil Factor:	1.00	Date of Analysis:	7/28/04 05:30 PM
		Date of Extraction:	7/26/04 04:00 PM

Compound	Rpt. Limit (μ g)	Amount (μ g)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.61 J /5
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	42
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

E = Exceeds instrument calibration range.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	33 Q	50-150
Phenol-d5	69	50-150
Nitrobenzene-d5	81	50-150
2,4,6-Tribromophenol	81	50-150
Fluorene-d10	79	60-120
Pyrene-d10	85	60-120

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 JUL23

ID#: 0407455B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	R072818	Date of Collection:	7/28/04
Dil Factor:	1.00	Date of Analysis:	7/28/04 06:01 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	1.3
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	0.94 JB /B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 JUL23

ID#: 0407455B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072818	Date of Collection:	7/22/04
Di Factor:	1.00	Date of Analysis:	7/28/04 06:01 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.58 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	1.6 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	60	50-150
Phenol-d5	64	50-150
Nitrobenzene-d5	56	50-150
2,4,6-Tribromophenol	65	50-150
Fluorene-d10	61	60-120
Pyrene-d10	65	60-120

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8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 JUL23

ID#: 0407455B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	K072819	Date of Collection	7/28/04
DIL Factor	1.00	Date of Analysis	7/28/04 06:31 PM
		Date of Extraction	7/28/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	15
1,2-Dichlorobenzene	1.0	98
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	18
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.3
Naphthalene	1.0	79 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	4.1
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	16
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CPS
8/13/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 JUL23

ID#: 0407455B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072819	Date of Collection:	7/23/04
Dil Factor:	1.00	Date of Analysis:	7/28/04 06:31 PM
		Date of Extraction:	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.43 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	5.8
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	11 Q	50-150
Phenol-d5	81	50-150
Nitrobenzene-d5	75	50-150
2,4,6-Tribromophenol	62	50-150
Fluorene-d10	66	60-120
Pyrene-d10	74	60-120

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 JUL23

ID#: 0407455B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K072820	Date of Collection:	7/23/04
Dil Factor:	1.00	Date of Analysis:	7/28/04 07:01 PM
		Date of Extraction:	7/26/04 09:00 AM

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	17
1,2-Dichlorobenzene	1.0	110
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	4.2 J 15
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	8.0
Isophorone	1.0	19
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	1.6
Naphthalene	1.0	95 B
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	4.3
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	22
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 JUL23

ID#: 0407455B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	K072820	Date of Collection	7/23/04
Dil Factor	1.00	Date of Analysis	7/28/04 07:04 PM
		Date of Extraction	7/26/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.78 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.64 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

B = Compound present in laboratory blank greater than reporting limit, background subtraction not performed.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	11 Q	50-150
Phenol-d5	85	50-150
Nitrobenzene-d5	79	50-150
2,4,6-Tribromophenol	68	50-150
Fluorene-d10	73	60-120
Pyrene-d10	76	60-120

CRS
8/13/04

August 12, 2004 Off-Gas Sample Laboratory Results

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS1 IN1 AUG12

ID#: 0408281A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082406	Date of Collection:	8/12/04
Dil Factor:	9070	Date of Analysis:	8/24/04 02:29 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	4500	3000 J / 5	12000	7700 J
Bromomethane	4500	Not Detected	18000	Not Detected
Chloroethane	4500	Not Detected	12000	Not Detected
1,1-Dichloroethene	4500	2200 J / 5	18000	8700 J
Methylene Chloride	4500	20000	16000	69000
1,1-Dichloroethane	4500	8500	19000	35000
cis-1,2-Dichloroethene	4500	88000	18000	360000
Chloroform	4500	5300	22000	26000
1,1,1-Trichloroethane	4500	100000	25000	590000
Carbon Tetrachloride	4500	Not Detected	29000	Not Detected
Benzene	4500	48000	15000	160000
1,2-Dichloroethane	4500	Not Detected	19000	Not Detected
Trichloroethene	4500	98000	25000	540000
1,2-Dichloropropane	4500	2300 J / 5	21000	11000 J
cis-1,3-Dichloropropene	4500	Not Detected	21000	Not Detected
Toluene	4500	800000	17000	3100000
trans-1,3-Dichloropropene	4500	Not Detected	21000	Not Detected
1,1,2-Trichloroethane	4500	Not Detected	25000	Not Detected
Tetrachloroethene	4500	250000	31000	1800000
Chlorobenzene	4500	Not Detected	21000	Not Detected
Ethyl Benzene	4500	120000	20000	510000
m,p-Xylene	4500	550000	20000	2400000
o-Xylene	4500	190000	20000	830000
Styrene	4500	Not Detected	20000	Not Detected
1,1,2,2-Tetrachloroethane	4500	Not Detected	32000	Not Detected
Bromodichloromethane	4500	Not Detected	31000	Not Detected
Dibromochloromethane	4500	Not Detected	39000	Not Detected
Chloromethane	18000	Not Detected	38000	Not Detected
Acetone	18000	8200 J / 5	44000	20000 J
Carbon Disulfide	18000	2200 J / 5	57000	7100 J
trans-1,2-Dichloroethene	18000	Not Detected	73000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	18000	2500 J / 5	54000	7400 J
4-Methyl-2-pentanone	18000	2300 J / 5	76000	9600 J
2-Hexanone	18000	Not Detected	76000	Not Detected
Bromoform	18000	Not Detected	190000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	107	70-130

ACS
9/8/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS1 IN1 AUG12

ID#: 0408281A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082406	Date of Collection:	8/12/04
Dil Factor:	9070	Date of Analysis:	8/24/04 02:29 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

CRS
9/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS1 IN1 AUG12

ID#: 0408281A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082509	Date of Collection:	8/12/04
Dil Factor:	2780	Date of Analysis:	8/25/04 03:55 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1400	1400	3600	3600
Bromomethane	1400	Not Detected	5500	Not Detected
Chloroethane	1400	Not Detected	3700	Not Detected
1,1-Dichloroethene	1400	2100	5600	8600
Methylene Chloride	1400	180000	4900	650000
1,1-Dichloroethane	1400	23000	5700	96000
cis-1,2-Dichloroethene	1400	18000	5600	71000
Chloroform	1400	10000	6900	51000
1,1,1-Trichloroethane	1400	160000	7700	900000
Carbon Tetrachloride	1400	Not Detected	8900	Not Detected
Benzene	1400	83000	4500	270000
1,2-Dichloroethane	1400	4700	5700	19000
Trichloroethene	1400	88000	7600	480000
1,2-Dichloropropane	1400	1200 J 15	6500	5900 J
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
Toluene	1400	540000	5300	2000000
trans-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
1,1,2-Trichloroethane	1400	900 J 15	7700	5000 J
Tetrachloroethene	1400	100000	9600	710000
Chlorobenzene	1400	Not Detected	6500	Not Detected
Ethyl Benzene	1400	59000	6100	260000
m,p-Xylene	1400	260000	6100	1100000
o-Xylene	1400	90000	6100	400000
Styrene	1400	Not Detected	6000	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9700	Not Detected
Bromodichloromethane	1400	Not Detected	9500	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
Chloromethane	5600	Not Detected	12000	Not Detected
Acetone	5600	66000	13000	160000
Carbon Disulfide	5600	Not Detected	18000	Not Detected
trans-1,2-Dichloroethene	5600	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	51000	17000	150000
4-Methyl-2-pentanone	5600	21000	23000	88000
2-Hexanone	5600	900 J 15	23000	3800 J
Bromoform	5600	Not Detected	58000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130

CRS
9/3/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS1 IN1 AUG12

ID#: 0408281A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	d082509	Date of Collection	8/12/04
Dil Factor	2780	Date of Analysis	8/25/04 03:55 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	103	70-130

PKS
9/8/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 AUG12

ID#: 0408281A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082407	Date of Collection:	8/12/04
Dil Factor:	57.60	Date of Analysis:	8/24/04 03:10 PM

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	2900	3800	7500	9800
Bromomethane	2900	Not Detected	11000	Not Detected
Chloroethane	2900	Not Detected	7700	Not Detected
1,1-Dichloroethene	2900	2000 J/5	12000	7900 J
Methylene Chloride	2900	64000	10000	230000
1,1-Dichloroethane	2900	12000	12000	50000
cis-1,2-Dichloroethene	2900	53000	12000	210000
Chloroform	2900	5400	14000	26000
1,1,1-Trichloroethane	2900	92000	16000	510000
Carbon Tetrachloride	2900	Not Detected	18000	Not Detected
Benzene	2900	48000	9400	160000
1,2-Dichloroethane	2900	1900 J/5	12000	7700 J
Trichloroethene	2900	65000	16000	360000
1,2-Dichloropropane	2900	1500 J/5	14000	6900 J
cis-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected
Toluene	2900	490000	11000	1900000
trans-1,3-Dichloropropene	2900	Not Detected	13000	Not Detected
1,1,2-Trichloroethane	2900	Not Detected	16000	Not Detected
Tetrachloroethene	2900	140000	20000	930000
Chlorobenzene	2900	Not Detected	13000	Not Detected
Ethyl Benzene	2900	66000	13000	290000
m,p-Xylene	2900	290000	13000	1300000
o-Xylene	2900	95000	13000	420000
Styrene	2900	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2900	Not Detected	20000	Not Detected
Bromodichloromethane	2900	Not Detected	20000	Not Detected
Dibromochloromethane	2900	Not Detected	25000	Not Detected
Chloromethane	12000	Not Detected	24000	Not Detected
Acetone	12000	26000	28000	64000
Carbon Disulfide	12000	2200 J/5	36000	7100 J
trans-1,2-Dichloroethene	12000	Not Detected	46000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	12000	14000	34000	42000
4-Methyl-2-pentanone	12000	7500 J/5	48000	31000 J
2-Hexanone	12000	Not Detected	48000	Not Detected
Bromoform	12000	Not Detected	120000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	113	70-130
Toluene-d8	104	70-130

Q184
9/18/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 AUG12

ID#: 0408281A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082407	Date of Collection:	8/12/04
Dil Factor:	5760	Date of Analysis:	8/24/04 03:10 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	99	70-130

CVS
9/8/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 AUG12

ID#: 0408281A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082408	Date of Collection:	8/12/04
Dil Factor:	5640	Date of Analysis:	8/24/04 03:51 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	2800	3600	7300	9500
Bromomethane	2800	Not Detected	11000	Not Detected
Chloroethane	2800	Not Detected	7600	Not Detected
1,1-Dichloroethene	2800	2000 J 15	11000	8100 J
Methylene Chloride	2800	68000	10000	240000
1,1-Dichloroethane	2800	13000	12000	53000
cis-1,2-Dichloroethene	2800	58000	11000	230000
Chloroform	2800	5500	14000	27000
1,1,1-Trichloroethane	2800	100000	16000	550000
Carbon Tetrachloride	2800	Not Detected	18000	Not Detected
Benzene	2800	51000	9200	170000
1,2-Dichloroethane	2800	2100 J 15	12000	8500 J
Trichloroethene	2800	73000	15000	400000
1,2-Dichloropropane	2800	1600 J 15	13000	7400 J
cis-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected
Toluene	2800	520000	11000	2000000
trans-1,3-Dichloropropene	2800	Not Detected	13000	Not Detected
1,1,2-Trichloroethane	2800	Not Detected	16000	Not Detected
Tetrachloroethene	2800	140000	19000	1000000
Chlorobenzene	2800	Not Detected	13000	Not Detected
Ethyl Benzene	2800	70000	12000	310000
m,p-Xylene	2800	320000	12000	1400000
o-Xylene	2800	110000	12000	500000
Styrene	2800	Not Detected	12000	Not Detected
1,1,2,2-Tetrachloroethane	2800	Not Detected	20000	Not Detected
Bromodichloromethane	2800	Not Detected	19000	Not Detected
Dibromochloromethane	2800	Not Detected	24000	Not Detected
Chloromethane	11000	Not Detected	24000	Not Detected
Acetone	11000	29000	27000	70000
Carbon Disulfide	11000	2500 J 15	36000	8000 J
trans-1,2-Dichloroethene	11000	Not Detected	45000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	11000	16000	34000	49000
4-Methyl-2-pentanone	11000	9200 J 15	47000	38000 J
2-Hexanone	11000	Not Detected	47000	Not Detected
Bromoform	11000	Not Detected	120000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	105	70-130

CKS
9/4/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 AUG12

ID#: 0408281A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	04082408	Date of Collection:	8/12/04
Dil Factor:	5640	Date of Analysis:	8/24/04 03:51 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	98	70-130

CTTS
9/8/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 AUG12

ID#: 0408281A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d082508	Date of Collection:	8/12/04
Dil Factor:	55.6	Date of Analysis:	8/25/04 03:14 P.M.

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	28	160	72	400
Bromomethane	28	Not Detected	110	Not Detected
Chloroethane	28	Not Detected	74	Not Detected
1,1-Dichloroethene	28	560	110	2300
Methylene Chloride	28	1200	98	4400
1,1-Dichloroethane	28	200	110	820
cis-1,2-Dichloroethene	28	910	110	3600
Chloroform	28	150	140	760
1,1,1-Trichloroethane	28	1300	150	7300
Carbon Tetrachloride	28	18 J / 5	180	110 J
Benzene	28	1400	90	4400
1,2-Dichloroethane	28	44	110	180
Trichloroethene	28	1400	150	7600
1,2-Dichloropropane	28	22 J / 5	130	100 J
cis-1,3-Dichloropropene	28	Not Detected	130	Not Detected
Toluene	28	8200	110	32000
trans-1,3-Dichloropropene	28	Not Detected	130	Not Detected
1,1,2-Trichloroethane	28	Not Detected	150	Not Detected
Tetrachloroethene	28	2900	190	20000
Chlorobenzene	28	21 J / 5	130	100 J
Ethyl Benzene	28	1100	120	4900
m,p-Xylene	28	4600	120	20000
o-Xylene	28	1600	120	7000
Styrene	28	270	120	1200
1,1,2,2-Tetrachloroethane	28	Not Detected	190	Not Detected
Bromodichloromethane	28	13 J / 5	190	87 J
Dibromochloromethane	28	Not Detected	240	Not Detected
Chloromethane	110	160	230	340
Acetone	110	610	270	1500
Carbon Disulfide	110	Not Detected	350	Not Detected
trans-1,2-Dichloroethene	110	96 J / 5	450	390 J
2-Butanone (Methyl Ethyl Ketone)	110	360	330	1100
4-Methyl-2-pentanone	110	140	460	580
2-Hexanone	110	12 J / 5	460	51 J
Bromoform	110	Not Detected	1200	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	112	70-130
Toluene-d8	103	70-130

AV
9/6/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 AUG12

ID#: 0408281A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	d0825081	Date of Collection:	8/12/04
Dil Factor:	55.6	Date of Analysis:	8/25/04 03:14 PM

Surrogates	%Recovery	Method Limits
4-Bromofluorobenzene	103	70-130

CBS
9/8/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS1 IN1 AUG12

ID#: 0408281B-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K081908	Date of Collection:	8/12/04
Dil. Factor:	1.00	Date of Analysis:	8/19/04 05:37 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	24
1,2-Dichlorobenzene	1.0	120
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	0.61 J /5
Naphthalene	1.0	90
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	3.3
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	34
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

085
07/16/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS1 IN1 AUG12

ID#: 0408281B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	k081909	Date of Collection	8/12/04
Dil Factor	1.00	Date of Analysis	8/19/04 06:08 PM
		Date of Extraction	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.34 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	15 Q	50-150
Phenol-d5	96	50-150
Nitrobenzene-d5	105	50-150
2,4,6-Tribromophenol	64	50-150
Fluorene-d10	82	60-120
Pyrene-d10	88	60-120

CVS
07/16/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 AUG12

ID#: 0408281B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	k081910	Date of Collection:	8/12/04
Dil Factor:	1.00	Date of Analysis:	8/19/04 06:38 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	20
1,2-Dichlorobenzene	1.0	120
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	16
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.1
Naphthalene	1.0	100
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	6.0
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	24
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 AUG12

ID#: 0408281B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

FileName:	k081910	Date of Collection:	8/12/04
Dil. Factor:	1:00	Date of Analysis:	8/19/04, 06:38 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.43 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	0.67 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	13 Q	50-150
Phenol-d5	95	50-150
Nitrobenzene-d5	101	50-150
2,4,6-Tribromophenol	50	50-150
Fluorene-d10	79	60-120
Pyrene-d10	87	60-120

CRS
9/3/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 AUG12

ID#: 0408281B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K081911	Date of Collection:	8/12/04
Dil. Factor:	1:00	Date of Analysis:	8/19/04 07:08 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	18
1,2-Dichlorobenzene	1.0	110
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	15
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.0
Naphthalene	1.0	100
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	5.4
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	25
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CRS
0/510

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 AUG12

ID#: 0408281B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K081911	Date of Collection:	8/12/04
Dil Factor:	1.00	Date of Analysis:	8/19/04 07:08 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.31 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	3.8 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	13 Q	50-150
Phenol-d5	95	50-150
Nitrobenzene-d5	105	50-150
2,4,6-Tribromophenol	62	50-150
Fluorene-d10	82	60-120
Pyrene-d10	86	60-120

205
9/3/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 AUG12

ID#: 0408281B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K081912	Date of Collection:	8/12/04
Dil Factor:	1.00	Date of Analysis:	8/19/04 07:39 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	0.86 J 15
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	0.44 J 15
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 AUG12

ID#: 0408281B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	K081912	Date of Collection:	8/12/04
Dil Factor:	100	Date of Analysis:	8/19/04 07:39 PM
		Date of Extraction:	8/16/04

Compound	Rpt. Limit (μ g)	Amount (μ g)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	Not Detected
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

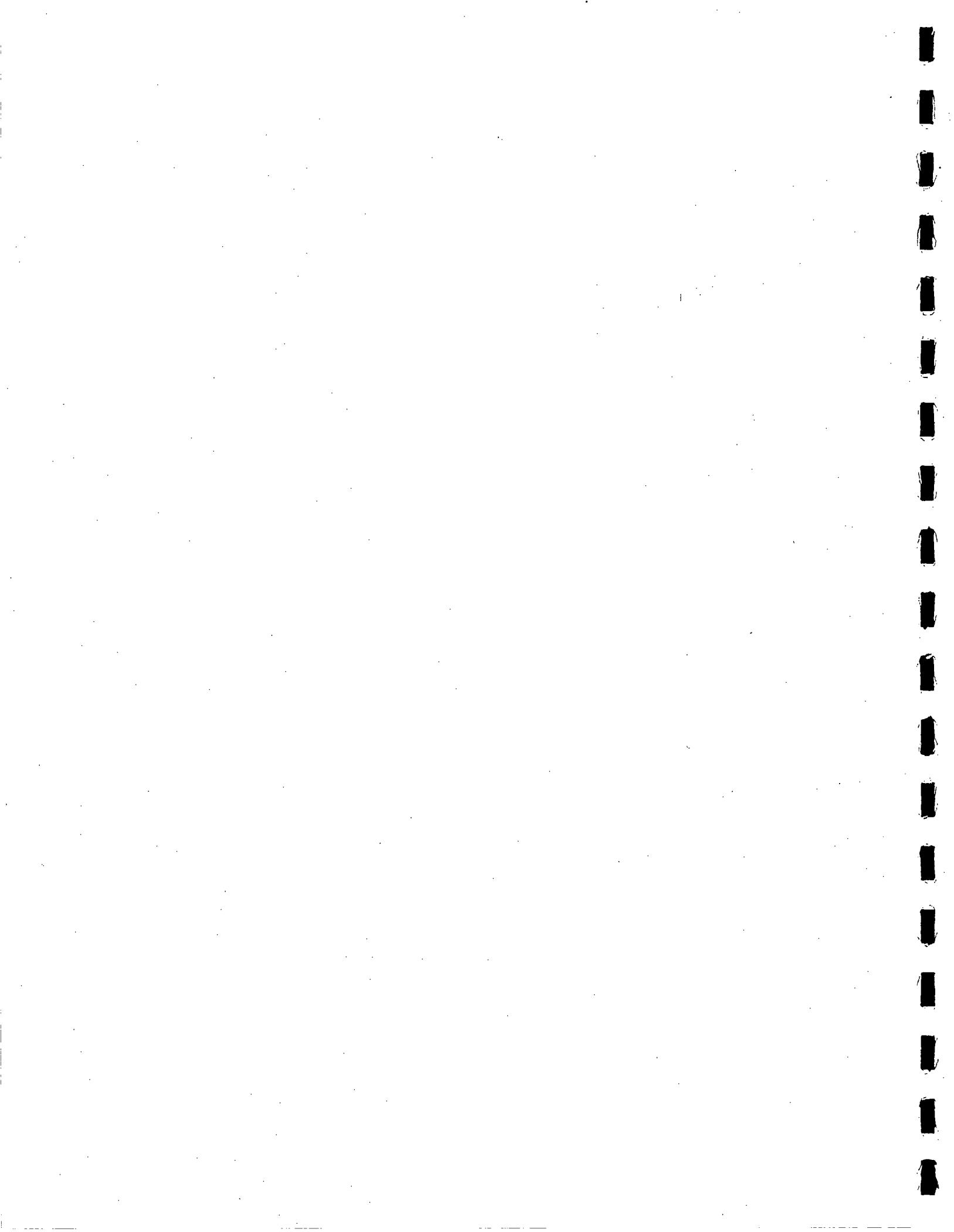
J = Estimated value.

Q = Exceeds Quality Control limits.

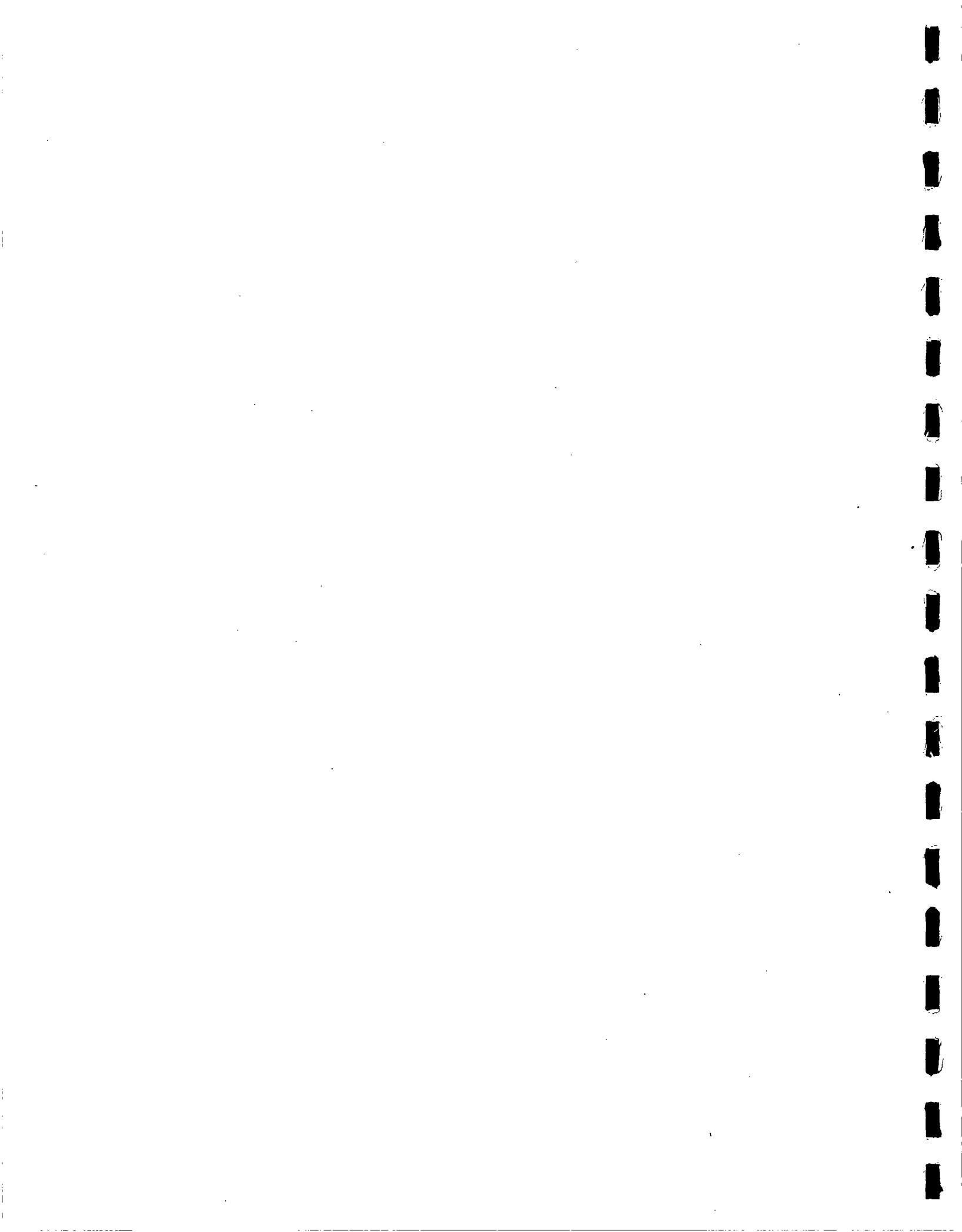
Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	61	50-150
Phenol-d5	62	50-150
Nitrobenzene-d5	65	50-150
2,4,6-Tribromophenol	42 Q	50-150
Fluorene-d10	63	60-120
Pyrene-d10	68	60-120

285
07/31/04



September 27, 2004 Off-Gas Sample Laboratory Results



AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONSI IN1 SEP27

ID#: 0409519A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	3400	Not Detected	8700	Not Detected
Bromomethane	3400	Not Detected	13000	Not Detected
Chloroethane	3400	Not Detected	9000	Not Detected
1,1-Dichloroethene	3400	1200 J 15	13000	4700 J
Methylene Chloride	3400	11000	12000	39000
1,1-Dichloroethane	3400	4300	14000	18000
cis-1,2-Dichloroethene	3400	60000	13000	240000
Chloroform	3400	4000	17000	20000
1,1,1-Trichloroethane	3400	58000	18000	320000
Carbon Tetrachloride	3400	Not Detected	21000	Not Detected
Benzene	3400	33000	11000	110000
1,2-Dichloroethane	3400	750 J 15	14000	3100 J
Trichloroethene	3400	59000	18000	320000
1,2-Dichloropropane	3400	Not Detected	16000	Not Detected
cis-1,3-Dichloropropene	3400	Not Detected	15000	Not Detected
Toluene	3400	650000	13000	2500000
trans-1,3-Dichloropropene	3400	Not Detected	15000	Not Detected
1,1,2-Trichloroethane	3400	Not Detected	18000	Not Detected
Tetrachloroethene	3400	220000	23000	1500000
Chlorobenzene	3400	Not Detected	16000	Not Detected
Ethyl Benzene	3400	120000	15000	510000
m,p-Xylene	3400	550000	15000	2400000
o-Xylene	3400	210000	15000	920000
Styrene	3400	Not Detected	14000	Not Detected
1,1,2,2-Tetrachloroethane	3400	Not Detected	23000	Not Detected
Bromodichloromethane	3400	Not Detected	23000	Not Detected
Dibromochloromethane	3400	Not Detected	29000	Not Detected
Chloromethane	14000	Not Detected	28000	Not Detected
Acetone	14000	7200 J 15	32000	17000 J
Carbon Disulfide	14000	1400 J 15	42000	4600 J
trans-1,2-Dichloroethene	14000	Not Detected	54000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	14000	2200 J 15	40000	6500 J
4-Methyl-2-pentanone	14000	3700 J 15	56000	15000 J
2-Hexanone	14000	Not Detected	56000	Not Detected
Bromoform	14000	Not Detected	140000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONSI IN1 SEP27

ID#: 0409519A-01A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFSI IN1 SEP27

ID#: 0409519A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1300	Not Detected	3400	Not Detected
Bromomethane	1300	Not Detected	5200	Not Detected
Chloroethane	1300	Not Detected	3500	Not Detected
1,1-Dichloroethene	1300	2200	5300	8800
Methylene Chloride	1300	88000	4600	310000
1,1-Dichloroethane	1300	10000	5400	42000
cis-1,2-Dichloroethene	1300	7400	5300	30000
Chloroform	1300	4400	6500	22000
1,1,1-Trichloroethane	1300	74000	7300	410000
Carbon Tetrachloride	1300	Not Detected	8400	Not Detected
Benzene	1300	47000	4300	150000
1,2-Dichloroethane	1300	2800	5400	12000
Trichloroethene	1300	49000	7200	270000
1,2-Dichloropropane	1300	940 J 15	6200	4400 J
cis-1,3-Dichloropropene	1300	Not Detected	6100	Not Detected
Toluene	1300	340000	5000	1300000
trans-1,3-Dichloropropene	1300	Not Detected	6100	Not Detected
1,1,2-Trichloroethane	1300	540 J 15	7300	3000 J
Tetrachloroethene	1300	71000	9100	490000
Chlorobenzene	1300	Not Detected	6200	Not Detected
Ethyl Benzene	1300	43000	5800	190000
m,p-Xylene	1300	180000	5800	800000
o-Xylene	1300	66000	5800	290000
Styrene	1300	3300	5700	14000
1,1,2,2-Tetrachloroethane	1300	Not Detected	9200	Not Detected
Bromodichloromethane	1300	Not Detected	9000	Not Detected
Dibromochloromethane	1300	Not Detected	11000	Not Detected
Chloromethane	5400	Not Detected	11000	Not Detected
Acetone	5400	46000	13000	110000
Carbon Disulfide	5400	Not Detected	17000	Not Detected
trans-1,2-Dichloroethene	5400	Not Detected	21000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5400	26000	16000	77000
4-Methyl-2-pentanone	5400	14000	22000	60000
2-Hexanone	5400	Not Detected	22000	Not Detected
Bromoform	5400	Not Detected	55000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

OKS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFSI IN1 SEP27

ID#: 0409519A-02A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	95	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 SEP27

ID#: 0409519A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1400	1200 J 15	3600	3200 J
Bromomethane	1400	Not Detected	5400	Not Detected
Chloroethane	1400	Not Detected	3700	Not Detected
1,1-Dichloroethene	1400	1100 J 15	5500	4500 J
Methylene Chloride	1400	38000	4800	130000
1,1-Dichloroethane	1400	6200	5600	26000
cis-1,2-Dichloroethene	1400	35000	5500	140000
Chloroform	1400	3700	6800	18000
1,1,1-Trichloroethane	1400	58000	7600	320000
Carbon Tetrachloride	1400	Not Detected	8700	Not Detected
Benzene	1400	34000	4400	110000
1,2-Dichloroethane	1400	1400	5600	6000
Trichloroethene	1400	50000	7500	280000
1,2-Dichloropropane	1400	1100 J 15	6400	5000 J
cis-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
Toluene	1400	500000	5200	1900000
trans-1,3-Dichloropropene	1400	Not Detected	6300	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7600	Not Detected
Tetrachloroethene	1400	140000	9400	1000000
Chlorobenzene	1400	Not Detected	6400	Not Detected
Ethyl Benzene	1400	82000	6000	360000
m,p-Xylene	1400	390000	6000	1700000
o-Xylene	1400	150000	6000	670000
Styrene	1400	Not Detected	5900	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9500	Not Detected
Bromodichloromethane	1400	Not Detected	9300	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
Chloromethane	5600	Not Detected	11000	Not Detected
Acetone	5600	17000	13000	42000
Carbon Disulfide	5600	Not Detected	17000	Not Detected
trans-1,2-Dichloroethene	5600	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	10000	16000	30000
4-Methyl-2-pentanone	5600	7500	23000	31000
2-Hexanone	5600	Not Detected	23000	Not Detected
Bromoform	5600	Not Detected	57000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 SEP27

ID#: 0409519A-03A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0409519A-03A-100803-01.DAT	Sample Date:	2004-09-03
Dir/Spec:	TO-14A	Run Date:	2004-09-03

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 SEP27

ID#: 0409519A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Sample Name	1008581	Date of Collection	2020-09-15	Date of Analysis	2020-09-15
ppb, fraction		ppb, fraction		ppm, fraction	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	1400	1400	3600	3600
Bromomethane	1400	Not Detected	5500	Not Detected
Chloroethane	1400	Not Detected	3700	Not Detected
1,1-Dichloroethene	1400	1200 J 15	5600	4700 J
Methylene Chloride	1400	40000	4900	140000
1,1-Dichloroethane	1400	6500	5700	27000
cis-1,2-Dichloroethene	1400	37000	5600	150000
Chloroform	1400	3800	6900	19000
1,1,1-Trichloroethane	1400	63000	7700	350000
Carbon Tetrachloride	1400	Not Detected	8900	Not Detected
Benzene	1400	38000	4500	120000
1,2-Dichloroethane	1400	1600	5700	6800
Trichloroethene	1400	56000	7600	300000
1,2-Dichloropropane	1400	Not Detected	6500	Not Detected
cis-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
Toluene	1400	550000	5300	2100000
trans-1,3-Dichloropropene	1400	Not Detected	6400	Not Detected
1,1,2-Trichloroethane	1400	Not Detected	7700	Not Detected
Tetrachloroethene	1400	160000	9600	1100000
Chlorobenzene	1400	Not Detected	6500	Not Detected
Ethyl Benzene	1400	93000	6100	41000
m,p-Xylene	1400	440000	6100	2000000
o-Xylene	1400	170000	6100	760000
Styrene	1400	Not Detected	6000	Not Detected
1,1,2,2-Tetrachloroethane	1400	Not Detected	9700	Not Detected
Bromodichloromethane	1400	Not Detected	9400	Not Detected
Dibromochloromethane	1400	Not Detected	12000	Not Detected
Chloromethane	5600	Not Detected	12000	Not Detected
Acetone	5600	18000	13000	45000
Carbon Disulfide	5600	Not Detected	18000	Not Detected
trans-1,2-Dichloroethene	5600	Not Detected	22000	Not Detected
2-Butanone (Methyl Ethyl Ketone)	5600	10000	17000	31000
4-Methyl-2-pentanone	5600	8500	23000	36000
2-Hexanone	5600	Not Detected	23000	Not Detected
Bromoform	5600	Not Detected	58000	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 SEP27

ID#: 0409519A-04A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogate ID	100808	Date of Collection	09/27/04
Dilution Factor	2820	Date of Analysis	09/04/04 04:07 PM

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	98	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	100	70-130

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27

ID#: 0409519A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Sample Name	100809	Date of Collection	9/27/04
Oil/Fuel Type	73	Date of Analysis	10/2/04/16:04:00

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	3.9	8.7	9.9	22
Bromomethane	3.9	Not Detected	15	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
1,1-Dichloroethene	3.9	4.0	15	16
Methylene Chloride	3.9	70	13	250
1,1-Dichloroethane	3.9	13	16	53
cis-1,2-Dichloroethene	3.9	80	15	320
Chloroform	3.9	7.2	19	36
1,1,1-Trichloroethane	3.9	110	21	600
Carbon Tetrachloride	3.9	Not Detected	24	Not Detected
Benzene	3.9	92	12	300
1,2-Dichloroethane	3.9	3.0 J 15	16	12 J
Trichloroethene	3.9	100	21	560
1,2-Dichloropropane	3.9	2.2 J 15	18	10 J
cis-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
Toluene	3.9	1000	15	3800
trans-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
1,1,2-Trichloroethane	3.9	Not Detected	21	Not Detected
Tetrachloroethene	3.9	320	26	2200
Chlorobenzene	3.9	Not Detected	18	Not Detected
Ethyl Benzene	3.9	200	17	880
m,p-Xylene	3.9	1000	17	4400
o-Xylene	3.9	420	17	1800
Styrene	3.9	Not Detected	16	Not Detected
1,1,2,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
Bromodichloromethane	3.9	Not Detected	26	Not Detected
Dibromochloromethane	3.9	Not Detected	33	Not Detected
Chloromethane	16	3.4 J 15	32	7.2 J
Acetone	16	190	37	460
Carbon Disulfide	16	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	62	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	52	46	160
4-Methyl-2-pentanone	16	20	64	82
2-Hexanone	16	Not Detected	64	Not Detected
Bromoform	16	Not Detected	160	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

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11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27

ID#: 0409519A-05A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Number	100909	Date of Collection	10/09/2009
DOI Factor	1.00	Date of Analysis	10/09/2009

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	103	70-130
Toluene-d8	104	70-130
4-Bromofluorobenzene	100	70-130

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AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27 Duplicate

ID#: 0409519A-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Compound	Rot. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	3.9	8.0	9.9	21
Bromomethane	3.9	Not Detected	15	Not Detected
Chloroethane	3.9	Not Detected	10	Not Detected
1,1-Dichloroethene	3.9	4.2	15	17
Methylene Chloride	3.9	69	13	240
1,1-Dichloroethane	3.9	12	16	50
cis-1,2-Dichloroethene	3.9	79	15	320
Chloroform	3.9	7.1	19	35
1,1,1-Trichloroethane	3.9	110	21	600
Carbon Tetrachloride	3.9	Not Detected	24	Not Detected
Benzene	3.9	92	12	300
1,2-Dichloroethane	3.9	2.9 J 15	16	12 J
Trichloroethene	3.9	100	21	550
1,2-Dichloropropane	3.9	2.1 J 15	18	9.9 J
cis-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
Toluene	3.9	980	15	3800
trans-1,3-Dichloropropene	3.9	Not Detected	18	Not Detected
1,1,2-Trichloroethane	3.9	Not Detected	21	Not Detected
Tetrachloroethene	3.9	320	26	2200
Chlorobenzene	3.9	Not Detected	18	Not Detected
Ethyl Benzene	3.9	200	17	890
m,p-Xylene	3.9	990	17	4400
o-Xylene	3.9	410	17	1800
Styrene	3.9	Not Detected	16	Not Detected
1,1,2,2-Tetrachloroethane	3.9	Not Detected	27	Not Detected
Bromodichloromethane	3.9	Not Detected	26	Not Detected
Dibromochloromethane	3.9	Not Detected	33	Not Detected
Chloromethane	16	3.9 J 15	32	8.1 J
Acetone	16	190	37	460
Carbon Disulfide	16	Not Detected	48	Not Detected
trans-1,2-Dichloroethene	16	Not Detected	62	Not Detected
2-Butanone (Methyl Ethyl Ketone)	16	53	46	160
4-Methyl-2-pentanone	16	20	64	85
2-Hexanone	16	Not Detected	64	Not Detected
Bromoform	16	Not Detected	160	Not Detected

J = Estimated value.

Container Type: 6 Liter Summa Canister

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27 Duplicate

ID#: 0409519A-05AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Sample Name:	100810	Date of Collection:	10/07/2004
QA Factor:	1.00	Date of QA:	10/07/2004

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	100	70-130
Toluene-d8	103	70-130
4-Bromofluorobenzene	99	70-130

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409519A-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	100805	Date of Collection:	10/8/2005
Sample ID:	100805	Date of Analysis:	10/8/2005 15:00 PM

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (uG/m3)	Amount (uG/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
Bromomethane	0.50	Not Detected	1.9	Not Detected
Chloroethane	0.50	Not Detected	1.3	Not Detected
1,1-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Methylene Chloride	0.50	Not Detected	1.7	Not Detected
1,1-Dichloroethane	0.50	Not Detected	2.0	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Chloroform	0.50	Not Detected	2.4	Not Detected
1,1,1-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Carbon Tetrachloride	0.50	Not Detected	3.1	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
1,2-Dichloroethane	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
1,2-Dichloropropane	0.50	Not Detected	2.3	Not Detected
cis-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
trans-1,3-Dichloropropene	0.50	Not Detected	2.3	Not Detected
1,1,2-Trichloroethane	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
Chlorobenzene	0.50	Not Detected	2.3	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
Styrene	0.50	Not Detected	2.1	Not Detected
1,1,2,2-Tetrachloroethane	0.50	Not Detected	3.4	Not Detected
Bromodichloromethane	0.50	Not Detected	3.4	Not Detected
Dibromochloromethane	0.50	Not Detected	4.2	Not Detected
Chloromethane	2.0	Not Detected	4.1	Not Detected
Acetone	2.0	0.31 J. /S	4.8	0.75 J
Carbon Disulfide	2.0	Not Detected	6.2	Not Detected
trans-1,2-Dichloroethene	2.0	Not Detected	7.9	Not Detected
2-Butanone (Methyl Ethyl Ketone)	2.0	Not Detected	5.9	Not Detected
4-Methyl-2-pentanone	2.0	Not Detected	8.2	Not Detected
2-Hexanone	2.0	Not Detected	8.2	Not Detected
Bromoform	2.0	Not Detected	21	Not Detected

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409519A-06A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Method Name	Sample ID	Date of Analysis
TO-14A	J000305	11/2/04

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	99	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

CBS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0409519A-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name	Sample Name	Date of Collection / Method
File Number	Sample ID	Date of Analysis / Report
0409519A-07A	CCV	10/04/04
0409519A-07A	CCV	10/04/04

Compound	%Recovery
Vinyl Chloride	86
Bromomethane	96
Chloroethane	83
1,1-Dichloroethene	85
Methylene Chloride	98
1,1-Dichloroethane	87
cis-1,2-Dichloroethene	86
Chloroform	83
1,1,1-Trichloroethane	85
Carbon Tetrachloride	93
Benzene	78
1,2-Dichloroethane	86
Trichloroethene	83
1,2-Dichloropropane	85
cis-1,3-Dichloropropene	88
Toluene	84
trans-1,3-Dichloropropene	89
1,1,2-Trichloroethane	82
Tetrachloroethene	86
Chlorobenzene	84
Ethyl Benzene	85
m,p-Xylene	81
o-Xylene	84
Styrene	87
1,1,2,2-Tetrachloroethane	84
Bromodichloromethane	90
Dibromochloromethane	93
Chloromethane	100
Acetone	95
Carbon Disulfide	86
trans-1,2-Dichloroethene	83
2-Butanone (Methyl Ethyl Ketone)	87
4-Methyl-2-pentanone	91
2-Hexanone	95
Bromoform	95

Container Type: NA - Not Applicable

CCS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: CCV

ID#: 0409519A-07A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogate	Conc. (ppm)	Conc. (ppm)	Date of Analysis
1,2-Dichloroethane-d4	100	101	10/04/04 11:25 AM
Toluene-d8		100	
4-Bromofluorobenzene		99	

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	99	70-130

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409519A-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	1008038	Date of Sample:	10/08/03
File ID:	1008038	Date of Analysis:	10/08/03

Compound	%Recovery
Vinyl Chloride	80
Bromomethane	90
Chloroethane	82
1,1-Dichloroethene	84
Methylene Chloride	90
1,1-Dichloroethane	96
cis-1,2-Dichloroethene	74
Chloroform	87
1,1,1-Trichloroethane	94
Carbon Tetrachloride	101
Benzene	84
1,2-Dichloroethane	100
Trichloroethene	91
1,2-Dichloropropane	105
cis-1,3-Dichloropropene	99
Toluene	82
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	85
Tetrachloroethene	86
Chlorobenzene	84
Ethyl Benzene	81
m,p-Xylene	80
o-Xylene	82
Styrene	95
1,1,2,2-Tetrachloroethane	88
Bromodichloromethane	102
Dibromochloromethane	104
Chloromethane	83
Acetone	105
Carbon Disulfide	93
trans-1,2-Dichloroethene	88
2-Butanone (Methyl Ethyl Ketone)	98
4-Methyl-2-pentanone	108
2-Hexanone	112
Bromoform	96

Container Type: NA - Not Applicable

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409519A-08A

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

File Name:	0409519A-08A	Date of Collection:	NA
DL Factor:	100	Method:	D14A or ARI (SLC) (09/04/2004) (14-A)

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

CBS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0409519A-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Sample Name	LCSD	Date of Collection	10/08/04
Dil-Factor	1.00	Date of Analysis	10/08/04

Compound	%Recovery
Vinyl Chloride	78
Bromomethane	86
Chloroethane	80
1,1-Dichloroethene	83
Methylene Chloride	90
1,1-Dichloroethane	95
cis-1,2-Dichloroethene	74
Chloroform	.87
1,1,1-Trichloroethane	94
Carbon Tetrachloride	101
Benzene	84
1,2-Dichloroethane	99
Trichloroethene	91
1,2-Dichloropropane	103
cis-1,3-Dichloropropene	98
Toluene	81
trans-1,3-Dichloropropene	105
1,1,2-Trichloroethane	85
Tetrachloroethene	85
Chlorobenzene	84
Ethyl Benzene	80
m,p-Xylene	80
o-Xylene	83
Styrene	95
1,1,2,2-Tetrachloroethane	88
Bromodichloromethane	101
Dibromochloromethane	104
Chloromethane	82
Acetone	105
Carbon Disulfide	91
trans-1,2-Dichloroethene	88
2-Butanone (Methyl Ethyl Ketone)	96
4-Methyl-2-pentanone	106
2-Hexanone	114
Bromoform	96

Container Type: NA - Not Applicable

CRS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCSD

ID#: 0409519A-08AA

MODIFIED EPA METHOD TO-14A GC/MS FULL SCAN

Surrogate Name	Conc. (ppm)	Conc. Collected (ppm)	Date of Analysis
1,2-Dichloroethane-d4	100	100	10/12/04
Toluene-d8	100	100	10/12/04
4-Bromofluorobenzene	100	100	10/12/04

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	101	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	100	70-130

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11/21/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS1 IN1 SEP27

ID#: 0409519B-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	100219B-01A	Date of Collection:	2004-09-19
DL Factor:	1000	Date of Analysis:	2004-09-22
		Date of Sampled:	2004-09-19

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	6.6	Not Detected
bis(2-Chloroethyl) Ether	1.3	Not Detected
2-Chlorophenol	6.6	Not Detected
1,3-Dichlorobenzene	1.3	12
1,4-Dichlorobenzene	1.3	26
1,2-Dichlorobenzene	1.3	160
2-Methylphenol (o-Cresol)	6.6	1.2 J 15
N-Nitroso-di-n-propylamine	1.3	Not Detected
4-Methylphenol/3-Methylphenol	6.6	3.5 J 15
Hexachloroethane	1.3	Not Detected
Nitrobenzene	1.3	Not Detected
Isophorone	1.3	8.0
2-Nitrophenol	6.6	Not Detected
2,4-Dimethylphenol	6.6	3.8 J 15
bis(2-Chloroethoxy) Methane	1.3	Not Detected
2,4-Dichlorophenol	6.6	Not Detected
1,2,4-Trichlorobenzene	1.3	1.5
Naphthalene	1.3	160
4-Chloroaniline	13	Not Detected
Hexachlorobutadiene	1.3	7.2
4-Chloro-3-methylphenol	6.6	Not Detected
2-Methylnaphthalene	1.3	58
Hexachlorocyclopentadiene	27	Not Detected
2,4,6-Trichlorophenol	6.6	Not Detected
2,4,5-Trichlorophenol	6.6	Not Detected
2-Chloronaphthalene	1.3	Not Detected
2-Nitroaniline	13	Not Detected
Dimethylphthalate	6.6	Not Detected
Acenaphthylene	1.3	Not Detected
2,6-Dinitrotoluene	6.6	Not Detected
3-Nitroaniline	13	Not Detected
Acenaphthene	1.3	Not Detected
2,4-Dinitrophenol	27	Not Detected
4-Nitrophenol	27	Not Detected
2,4-Dinitrotoluene	6.6	Not Detected
Dibenzofuran	1.3	Not Detected
Diethylphthalate	6.6	Not Detected
Fluorene	1.3	Not Detected
4-Chlorophenyl-phenyl Ether	1.3	Not Detected
4-Nitroaniline	13	Not Detected
4,6-Dinitro-2-methylphenol	13	Not Detected

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 ONS1 IN1 SEP27

ID#: 0409519B-01A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Number	0409519B-01A	Date of Collection	9/27/04
DL Factor	1.0	Date of Analysis	10/7/04 11:30 AM
		Date of Extraction	9/28/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	13	Not Detected
4-Bromophenyl-phenyl Ether	1.3	Not Detected
Hexachlorobenzene	1.3	Not Detected
Pentachlorophenol	27	Not Detected
Phenanthrene	1.3	Not Detected
Anthracene	1.3	Not Detected
di-n-Butylphthalate	6.6	0.64 J /B
Fluoranthene	1.3	Not Detected
Pyrene	1.3	Not Detected
Butylbenzylphthalate	6.6	Not Detected
3,3'-Dichlorobenzidine	27	Not Detected
Chrysene	1.3	Not Detected
Benzo(a)anthracene	1.3	Not Detected
bis(2-Ethylhexyl)phthalate	6.6	3.0 J /S
Di-n-Octylphthalate	6.6	Not Detected
Benzo(b)fluoranthene	1.3	Not Detected
Benzo(k)fluoranthene	1.3	Not Detected
Benzo(a)pyrene	1.3	Not Detected
Indeno(1,2,3-c,d)pyrene	1.3	Not Detected
Dibenz(a,h)anthracene	1.3	Not Detected
Benzo(g,h,i)perylene	1.3	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	32 Q	50-150
Phenol-d5	84	50-150
Nitrobenzene-d5	110	50-150
2,4,6-Tribromophenol	89	50-150
Fluorene-d10	103	60-120
Pyrene-d10	112	60-120

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11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS1 IN1 SEP27

ID#: 0409519B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	P100500.D	Date of Collection:	9/27/04
DLW-Accrued:	0.00	Date of Analysis:	10/5/04 14:34:12
DLW-Entered:	0.00	Date of Extraction:	9/28/04 17:00:00

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	3.4
1,4-Dichlorobenzene	1.0	11
1,2-Dichlorobenzene	1.0	92
2-Methylphenol (o-Cresol)	5.0	2.8 J 15
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	6.4
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	28
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	5.2
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.7
Naphthalene	1.0	75
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	5.7
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	16
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.34 J 15
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CDS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 OFS1 IN1 SEP27

ID#: 0409519B-02A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Sample ID:	D-100509	Date of Collection:	9/27/04
Sample Type:	Environmental	Date of Analysis:	9/27/04
Sample Date:	9/27/04	Date of Extraction:	9/27/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.77 J 13
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.47 J 15
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.0 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	24 Q	50-150
Phenol-d5	85	50-150
Nitrobenzene-d5	100	50-150
2,4,6-Tribromophenol	95	50-150
Fluorene-d10	96	60-120
Pyrene-d10	106	60-120

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1/12/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 SEP27

ID#: 0409519B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name	0409519B-03A	Date of Collection	2002/09/14
On Location	100510	Date of Analysis	2002/09/14
Sample ID	100510	Date of Extraction	2002/09/14

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	8.6
1,4-Dichlorobenzene	1.0	23
1,2-Dichlorobenzene	1.0	150
2-Methylphenol (o-Cresol)	5.0	3.4 J 15
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	6.6
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	25
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	5.1
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	2.6
Naphthalene	1.0	150
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	9.1
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	43
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	0.20 J 15
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.32 J 15
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN1 SEP27

ID#: 0409519B-03A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Item Name	Date of Collection	Date of Analysis (Method)	Date of Extraction
DIL Factor	Conc. (ug/m3)	(ug/m3)	(ug/m3)

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.79 J /B
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	0.72 J /J
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	2.8 J /J
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	23 Q	50-150
Phenol-d5	86	50-150
Nitrobenzene-d5	99	50-150
2,4,6-Tribromophenol	98	50-150
Fluorene-d10	100	60-120
Pyrene-d10	105	60-120

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 SEP27

ID#: 0409519B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	0409519B-04A	Date of Collection:	10/07/2014
File Prefix:		Date of Analysis:	10/07/2014
File Suffix:		Date of Reporting:	10/07/2014

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	6.6	Not Detected
bis(2-Chloroethyl) Ether	1.3	Not Detected
2-Chlorophenol	6.6	Not Detected
1,3-Dichlorobenzene	1.3	9.3
1,4-Dichlorobenzene	1.3	23
1,2-Dichlorobenzene	1.3	160
2-Methylphenol (o-Cresol)	6.6	3.4 J 15
N-Nitroso-di-n-propylamine	1.3	Not Detected
4-Methylphenol/3-Methylphenol	6.6	7.4
Hexachloroethane	1.3	Not Detected
Nitrobenzene	1.3	Not Detected
Isophorone	1.3	28
2-Nitrophenol	6.6	Not Detected
2,4-Dimethylphenol	6.6	5.0 J 15
bis(2-Chloroethoxy) Methane	1.3	Not Detected
2,4-Dichlorophenol	6.6	Not Detected
1,2,4-Trichlorobenzene	1.3	3.0
Naphthalene	1.3	170
4-Chloroaniline	13	Not Detected
Hexachlorobutadiene	1.3	9.6
4-Chloro-3-methylphenol	6.6	Not Detected
2-Methylnaphthalene	1.3	47
Hexachlorocyclopentadiene	27	Not Detected
2,4,6-Trichlorophenol	6.6	Not Detected
2,4,5-Trichlorophenol	6.6	Not Detected
2-Chloronaphthalene	1.3	Not Detected
2-Nitroaniline	13	Not Detected
Dimethylphthalate	6.6	Not Detected
Acenaphthylene	1.3	Not Detected
2,6-Dinitrotoluene	6.6	Not Detected
3-Nitroaniline	13	Not Detected
Acenaphthene	1.3	Not Detected
2,4-Dinitrophenol	27	Not Detected
4-Nitrophenol	27	Not Detected
2,4-Dinitrotoluene	6.6	Not Detected
Dibenzofuran	1.3	Not Detected
Diethylphthalate	6.6	Not Detected
Fluorene	1.3	Not Detected
4-Chlorophenyl-phenyl Ether	1.3	Not Detected
4-Nitroaniline	13	Not Detected
4,6-Dinitro-2-methylphenol	13	Not Detected

CDS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 IN2 SEP27

ID#: 0409519B-04A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

Sample Name:	ACS TO2 IN2 SEP27	Date of Collection:	9/27/04
Dim Factor:	1007.05	Date of Analysis:	9/27/04
		Date of Extraction:	9/28/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	13	Not Detected
4-Bromophenyl-phenyl Ether	1.3	Not Detected
Hexachlorobenzene	1.3	Not Detected
Pentachlorophenol	27	Not Detected
Phenanthrene	1.3	Not Detected
Anthracene	1.3	Not Detected
di-n-Butylphthalate	6.6	0.59 J 13
Fluoranthene	1.3	Not Detected
Pyrene	1.3	Not Detected
Butylbenzylphthalate	6.6	Not Detected
3,3'-Dichlorobenzidine	27	Not Detected
Chrysene	1.3	Not Detected
Benzo(a)anthracene	1.3	Not Detected
bis(2-Ethylhexyl)phthalate	6.6	3.2 J 15
Di-n-Octylphthalate	6.6	Not Detected
Benzo(b)fluoranthene	1.3	Not Detected
Benzo(k)fluoranthene	1.3	Not Detected
Benzo(a)pyrene	1.3	Not Detected
Indeno(1,2,3-c,d)pyrene	1.3	Not Detected
Dibenz(a,h)anthracene	1.3	Not Detected
Benzo(g,h,i)perylene	1.3	Not Detected

J = Estimated value.

Q = Exceeds Quality Control limits.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	23 Q	50-150
Phenol-d5	88	50-150
Nitrobenzene-d5	109	50-150
2,4,6-Tribromophenol	92	50-150
Fluorene-d10	103	60-120
Pyrene-d10	118	60-120

CAS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27

ID#: 0409519B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	0409519B-05A	Date of Collection:	09/27/04
File Type:	000	Date of Analysis:	10/5/04 (MPM)
Sample ID:		Date of Extraction:	09/28/04
Sample Name:			

Compound	Rpt. Limit (μ g)	Amount (μ g)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	0.23 J
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

AIR TOXICS LTD.

SAMPLE NAME: ACS TO2 EFF1 SEP27

ID#: 0409519B-05A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	0409519B-05A	Date of Collection:	9/27/04
Dir Factor:	1.00	Date of Analysis:	10/5/04 09:30 PM
		Date of Extraction:	9/28/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.43 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	0.16 J 15
bis(2-Ethylhexyl)phthalate	5.0	0.76 J 15
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: XAD Tube

Surrogates	%Recovery	Method Limits
2-Fluorophenol	86	50-150
Phenol-d5	88	50-150
Nitrobenzene-d5	84	50-150
2,4,6-Tribromophenol	75	50-150
Fluorene-d10	84	60-120
Pyrene-d10	95	60-120

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409519B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	100505	Date of Analysis:	10/5/04
DP Factor:	1.00	Date of Entry:	10/5/04

Compound	Rpt. Limit (ug)	Amount (ug)
Phenol	5.0	Not Detected
bis(2-Chloroethyl) Ether	1.0	Not Detected
2-Chlorophenol	5.0	Not Detected
1,3-Dichlorobenzene	1.0	Not Detected
1,4-Dichlorobenzene	1.0	Not Detected
1,2-Dichlorobenzene	1.0	Not Detected
2-Methylphenol (o-Cresol)	5.0	Not Detected
N-Nitroso-di-n-propylamine	1.0	Not Detected
4-Methylphenol/3-Methylphenol	5.0	Not Detected
Hexachloroethane	1.0	Not Detected
Nitrobenzene	1.0	Not Detected
Isophorone	1.0	Not Detected
2-Nitrophenol	5.0	Not Detected
2,4-Dimethylphenol	5.0	Not Detected
bis(2-Chloroethoxy) Methane	1.0	Not Detected
2,4-Dichlorophenol	5.0	Not Detected
1,2,4-Trichlorobenzene	1.0	Not Detected
Naphthalene	1.0	Not Detected
4-Chloroaniline	10	Not Detected
Hexachlorobutadiene	1.0	Not Detected
4-Chloro-3-methylphenol	5.0	Not Detected
2-Methylnaphthalene	1.0	Not Detected
Hexachlorocyclopentadiene	20	Not Detected
2,4,6-Trichlorophenol	5.0	Not Detected
2,4,5-Trichlorophenol	5.0	Not Detected
2-Chloronaphthalene	1.0	Not Detected
2-Nitroaniline	10	Not Detected
Dimethylphthalate	5.0	Not Detected
Acenaphthylene	1.0	Not Detected
2,6-Dinitrotoluene	5.0	Not Detected
3-Nitroaniline	10	Not Detected
Acenaphthene	1.0	Not Detected
2,4-Dinitrophenol	20	Not Detected
4-Nitrophenol	20	Not Detected
2,4-Dinitrotoluene	5.0	Not Detected
Dibenzofuran	1.0	Not Detected
Diethylphthalate	5.0	Not Detected
Fluorene	1.0	Not Detected
4-Chlorophenyl-phenyl Ether	1.0	Not Detected
4-Nitroaniline	10	Not Detected
4,6-Dinitro-2-methylphenol	10	Not Detected

CPS
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: Lab Blank

ID#: 0409519B-06A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Number	0409519B-06A	Date Analyzed	10/3/04
Dil Factor	1.00	Date of Extraction	10/2/04

Compound	Rpt. Limit (ug)	Amount (ug)
N-Nitrosodiphenylamine	10	Not Detected
4-Bromophenyl-phenyl Ether	1.0	Not Detected
Hexachlorobenzene	1.0	Not Detected
Pentachlorophenol	20	Not Detected
Phenanthrene	1.0	Not Detected
Anthracene	1.0	Not Detected
di-n-Butylphthalate	5.0	0.47 J 15
Fluoranthene	1.0	Not Detected
Pyrene	1.0	Not Detected
Butylbenzylphthalate	5.0	Not Detected
3,3'-Dichlorobenzidine	20	Not Detected
Chrysene	1.0	Not Detected
Benzo(a)anthracene	1.0	Not Detected
bis(2-Ethylhexyl)phthalate	5.0	Not Detected
Di-n-Octylphthalate	5.0	Not Detected
Benzo(b)fluoranthene	1.0	Not Detected
Benzo(k)fluoranthene	1.0	Not Detected
Benzo(a)pyrene	1.0	Not Detected
Indeno(1,2,3-c,d)pyrene	1.0	Not Detected
Dibenz(a,h)anthracene	1.0	Not Detected
Benzo(g,h,i)perylene	1.0	Not Detected

J = Estimated value.

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	80	50-150
Phenol-d5	84	50-150
Nitrobenzene-d5	75	50-150
2,4,6-Tribromophenol	72	50-150
Fluorene-d10	78	60-120
Pyrene-d10	83	60-120

CA5
11/2/04

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409519B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

ELN Name:	50060R	Date of Analysis:	10/5/2002
DL Factor:	1.00	Sample ID:	0409519B-07A
			Date of Entry into Lab:

Compound	%Recovery
Phenol	83
bis(2-Chloroethyl) Ether	Not Spiked
2-Chlorophenol	81
1,3-Dichlorobenzene	Not Spiked
1,4-Dichlorobenzene	77
1,2-Dichlorobenzene	Not Spiked
2-Methylphenol (o-Cresol)	Not Spiked
N-Nitroso-di-n-propylamine	81
4-Methylphenol/3-Methylphenol	Not Spiked
Hexachloroethane	Not Spiked
Nitrobenzene	Not Spiked
Isophorone	Not Spiked
2-Nitrophenol	Not Spiked
2,4-Dimethylphenol	Not Spiked
bis(2-Chloroethoxy) Methane	Not Spiked
2,4-Dichlorophenol	Not Spiked
1,2,4-Trichlorobenzene	85
Naphthalene	Not Spiked
4-Chloroaniline	Not Spiked
Hexachlorobutadiene	Not Spiked
4-Chloro-3-methylphenol	83
2-Methylnaphthalene	Not Spiked
Hexachlorocyclopentadiene	Not Spiked
2,4,6-Trichlorophenol	Not Spiked
2,4,5-Trichlorophenol	Not Spiked
2-Choronaphthalene	Not Spiked
2-Nitroaniline	Not Spiked
Dimethylphthalate	Not Spiked
Acenaphthylene	Not Spiked
2,6-Dinitrotoluene	Not Spiked
3-Nitroaniline	Not Spiked
Acenaphthene	82
2,4-Dinitrophenol	Not Spiked
4-Nitrophenol	75
2,4-Dinitrotoluene	84
Dibenzofuran	Not Spiked
Diethylphthalate	Not Spiked
Fluorene	Not Spiked
4-Chlorophenyl-phenyl Ether	Not Spiked
4-Nitroaniline	Not Spiked
4,6-Dinitro-2-methylphenol	Not Spiked

CPS
11/2/02

AIR TOXICS LTD.

SAMPLE NAME: LCS

ID#: 0409519B-07A

MODIFIED EPA METHOD TO-13A GC/MS FULL SCAN

File Name:	LCST0409519B-07A	Date of Collection:	10/05/06
Dir/Specs:	LCST0409519B-07A	Date of Analysis:	10/12/06
		Date of Extraction:	10/05/06

Compound	%Recovery
N-Nitrosodiphenylamine	Not Spiked
4-Bromophenyl-phenyl Ether	Not Spiked
Hexachlorobenzene	Not Spiked
Pentachlorophenol	80
Phenanthrene	Not Spiked
Anthracene	Not Spiked
di-n-Butylphthalate	Not Spiked
Fluoranthene	Not Spiked
Pyrene	86
Butylbenzylphthalate	Not Spiked
3,3'-Dichlorobenzidine	Not Spiked
Chrysene	Not Spiked
Benzo(a)anthracene	Not Spiked
bis(2-Ethylhexyl)phthalate	Not Spiked
Di-n-Octylphthalate	Not Spiked
Benzo(b)fluoranthene	Not Spiked
Benzo(k)fluoranthene	Not Spiked
Benzo(a)pyrene	Not Spiked
Indeno(1,2,3-c,d)pyrene	Not Spiked
Dibenz(a,h)anthracene	Not Spiked
Benzo(g,h,i)perylene	Not Spiked

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
2-Fluorophenol	85	50-150
Phenol-d5	85	50-150
Nitrobenzene-d5	93	50-150
2,4,6-Tribromophenol	84	50-150
Fluorene-d10	90	60-120
Pyrene-d10	91	60-120

CAS
11/12/04